ICOM

# SERVICE MANUAL

DIGITAL VOICE REPEATER

# ID-RP2000V

S-14308XZ-C1
Dec. 2006

Icom Inc.

## INTRODUCTION

This service manual describes the latest service information for the **ID-RP2000V** DIGITAL VOICE REPEATER at the time of publication.

To upgrade quality, any electrical or mechanical parts and internal circuits are subject to change without notice or obligation.

## CAUTION

**NEVER** connect the transceiver to an AC outlet or to a DC power supply that uses more than 15 V. This will ruin the transceiver.

**DO NOT** reverse the polarities of the power supply when connecting the transceiver.

**DO NOT** apply an RF signal of more than 20 dBm (100 mW) to the antenna connector. This could damage the transceiver's front end.




## ORDERING PARTS

Be sure to include the following four points when ordering replacement parts:

1. 10-digit order numbers
2. Component part number and name
3. Equipment model name and unit name
4. Quantity required

**<SAMPLE ORDER>**

| | | | | | |
|---|---|---|---|---|---|
| 1110003491 | S.IC | TA31136FNG | ID-RP2000V | MAIN UNIT | 5 pieces |
| 8820001210 | Screw | 2438 screw | ID-RP2000V | Top cover | 10 pieces |

Addresses are provided on the inside back cover for your convenience.

## REPAIR NOTES

1. Make sure a problem is internal before disassembling the transceiver.
2. **DO NOT** open the transceiver until the transceiver is disconnected from its power source.
3. **DO NOT** force any of the variable components. Turn them slowly and smoothly.
4. **DO NOT** short any circuits or electronic parts. An insulated tuning tool **MUST** be used for all adjustments.
5. **DO NOT** keep power ON for a long time when the transceiver is defective.
6. **DO NOT** transmit power into a signal generator or a sweep generator.
7. **ALWAYS** connect a 50 dB to 60 dB attenuator between the transceiver and a deviation meter or spectrum analyzer when using such test equipment.
8. **READ** the instructions of test equipment thoroughly before connecting equipment to the transceiver.

# TABLE OF CONTENTS

# SECTION 1 SPECIFICATIONS

## GENERAL

| | |
|---|---|
| • Operating frequency range | : Transmit 144–148 MHz<br>Receive 144–148 MHz |
| • Type of emission | : F1D* (GMSK)<br>*F7W for system operation |
| • Transfer rate | : 4.8 kbps |
| • Frequency resolutions | : 5, 6.25 kHz |
| • Frequency stability | : ±0.3 kHz (based on 25˚C) |
| • Usable temperature range | : –10˚C to +50˚C; +14˚F to +122˚F |
| • Antenna connectors | : Type-N (50 Ω)×2 |
| • Power supply requirement | : 13.8 V DC ±15% (Negative ground) |
| • Current drain | : Transmit (High) Less than 7.0 A<br>(Low) Less than 3.0 A<br>Receive (Stand-by) Less than 0.7 A |
| • Dimensions (proj. not included) | : 483(W)×88(H)×428(D) mm; 19(W)×3 15⁄32(H)×16 27⁄32(D) in |
| • Weight (Approx.) | : 7.5 kg; 16 lb 9 oz |

## TRANSMITTER

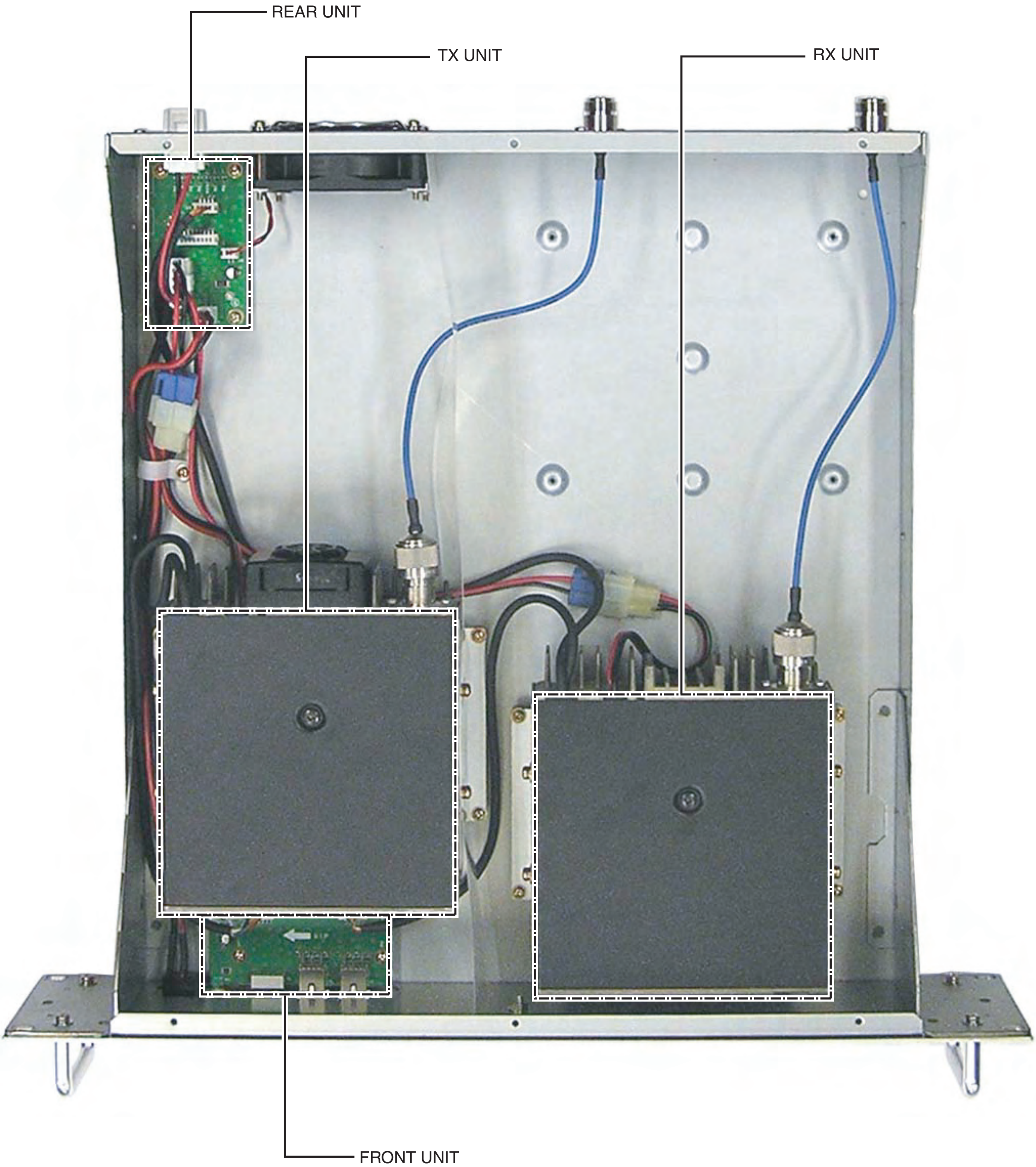
| | |
|---|---|
| • Output power (at 13.8 V DC) | : High 23–30 W<br>Low 2.0–3.0 W |
| • Modulation | : GMSK |
| • Modulation system | : Quadrature modulation (244.8 MHz) |
| • Occupied bandwidth | : Less than 5.5 kHz |
| • Spurious emissions | : Less than –60 dB |

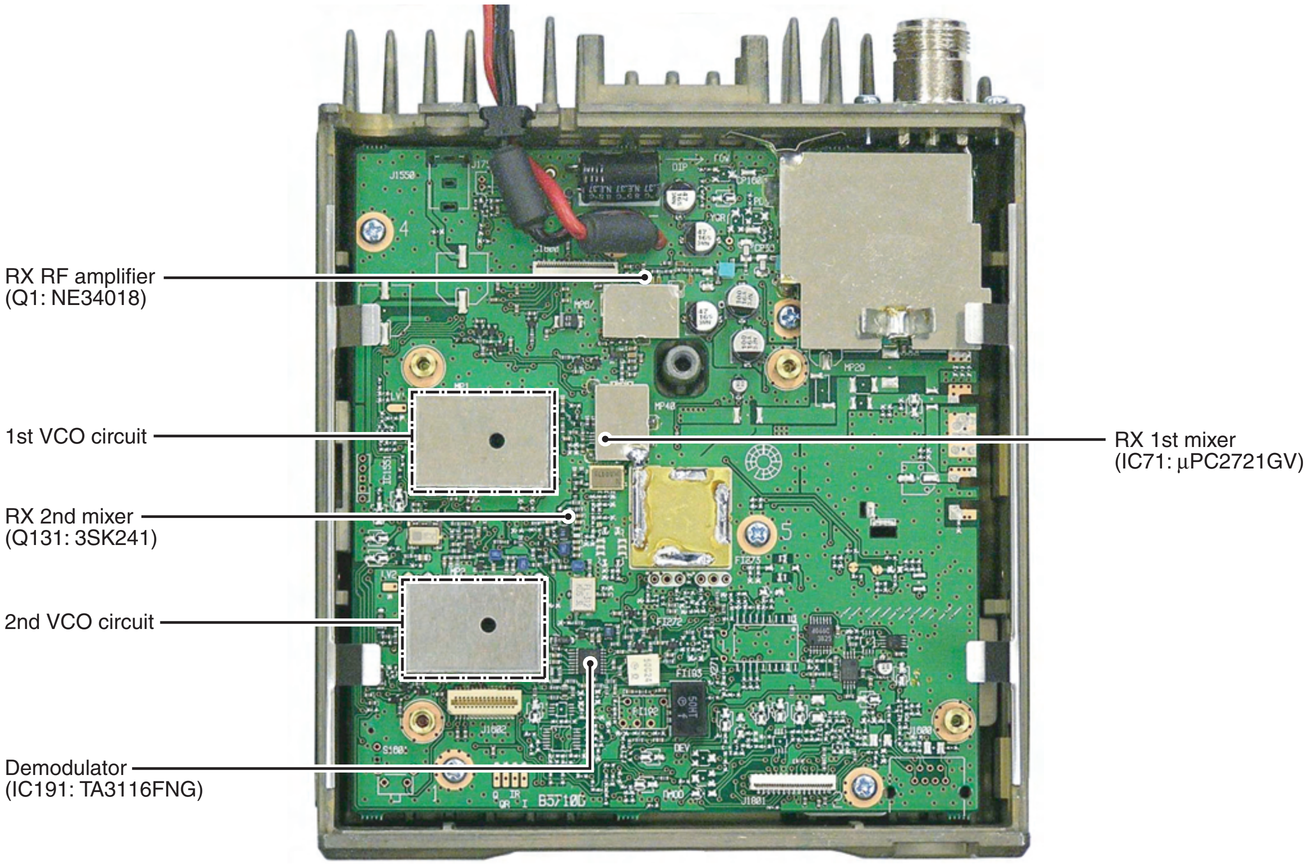
## RECEIVER

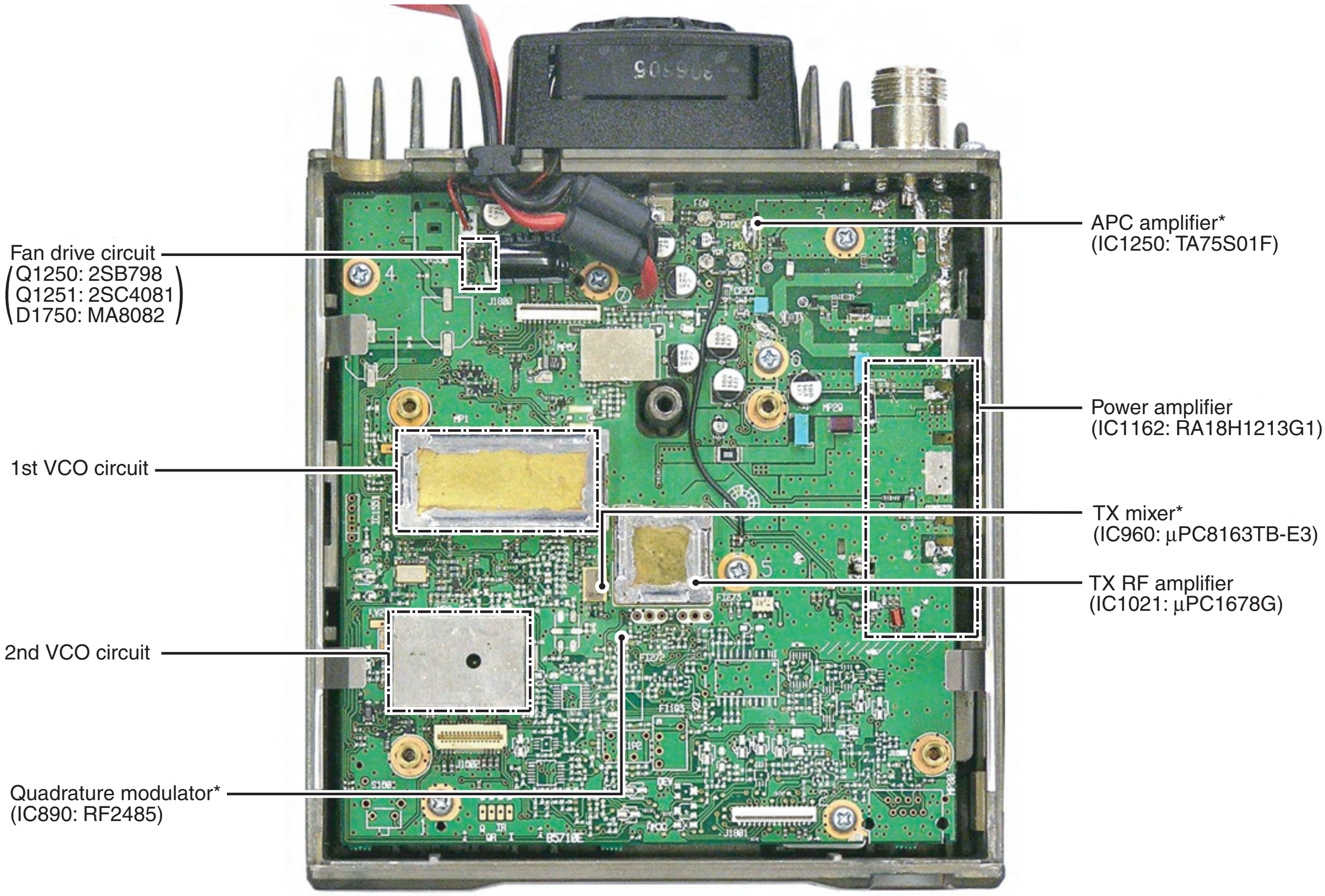
| | |
|---|---|
| • Receive system | : Double-conversion superheterodyne system |
| • Intermediate frequencies | : 1st 46.35 MHz<br>2nd 450 kHz |
| • Sensitivity (BER $1\times10^{-2}$) | : Less than –7 dBμ (0.45 μV) |
| • Selectivity (20 kHz offset) | : More than 65 dB |
| • Spurious and image rejection | : More than 70 dB |
| • Receive spurious | : Less than 2 nW (–57 dBm) |

All stated specifications are subject to change without notice or obligation.

# SECTION 2 INSIDE VIEWS



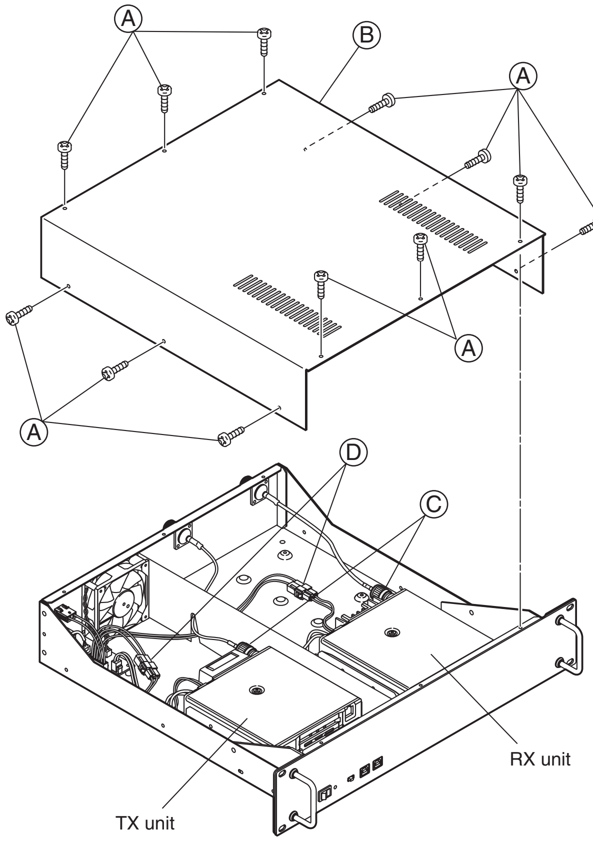

RX RF amplifier
(Q1: NE34018)
1st VCO circuit
RX 2nd mixer
(Q131: 3SK241)
2nd VCO circuit
Demodulator
(IC191: TA3116FNG)
RX 1st mixer
(IC71: µPC2721GV)


APC amplifier*
(IC1250: TA75S01F)
Fan drive circuit
Q1250: 2SB798
Q1251: 2SC4081
D1750: MA8082
Power amplifier
(IC1162: RA18H1213G1)
1st VCO circuit
TX mixer*
(IC960: µPC8163TB-E3)
TX RF amplifier
(IC1021: µPC1678G)
2nd VCO circuit
Quadrature modulator*
(IC890: RF2485)

# SECTION 3 DISASSEMBLY INSTRUCTION

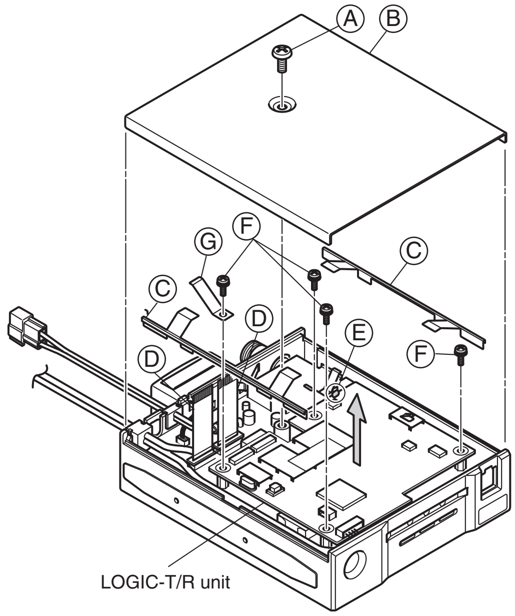
**• REMOVING THE COVER**

① Unscrew 12 screws Ⓐ, and remove the cover Ⓑ.
② Disconnect 2 cables Ⓒ, and disconnect 2 cables Ⓓ.



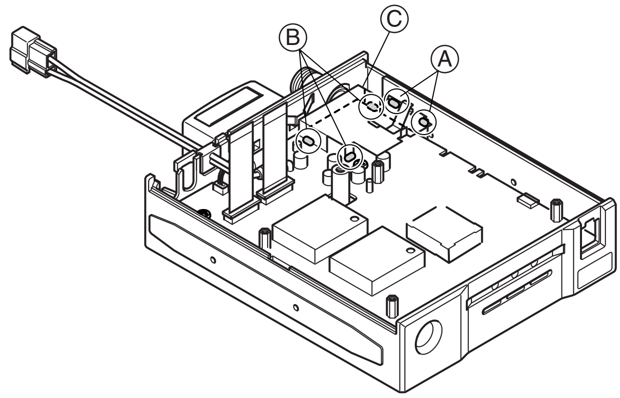

**• REMOVING THE LOGIC-T/R UNIT**

① Unscrew 1 screw Ⓐ, and remove the cover Ⓑ.
② Remove 2 main shield plates Ⓒ.
③ Disconnect 2 cables Ⓓ, and unsolder 1 point Ⓔ.
④ Unscrew 4 screws Ⓕ, and remove the earth spring Ⓖ.
⑤ Take off the LOGIC-T/R unit.

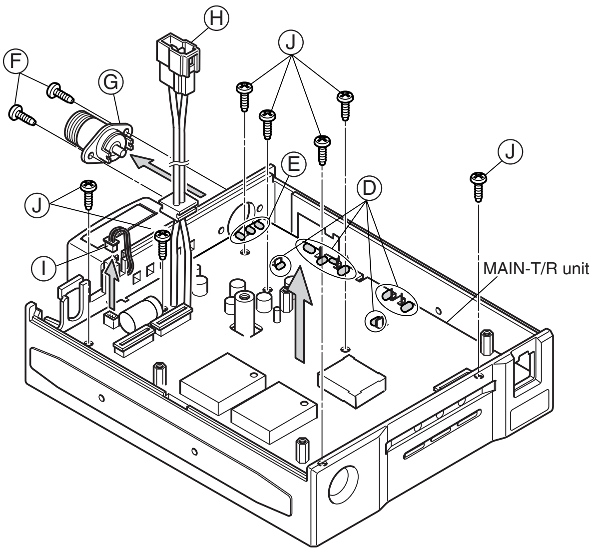



**• REMOVING THE MAIN-T/R UNIT**

① Unsolder 2 points Ⓐ. (MAIN-T unit only)
② Unsolder 3 points Ⓑ, and remove the ANT plate Ⓒ.



③ Unsolder 8 points Ⓓ. (MAIN-T unit only)
④ Unsolder 3 points Ⓔ.
⑤ Unscrew 2 screws Ⓕ, and remove the ANT connector Ⓖ.
⑥ Take off the cable Ⓗ from the chassis.
⑦ Disconnect the cable Ⓘ. (MAIN-T unit only)
⑧ Unscrew 7 screws Ⓙ, and take off the MAIN-T/R unit.



# SECTION 4 PARTS LIST

## [LOGIC-R UNIT]

| REF NO. | ORDER NO. | DESCRIPTION | M. | H/V LOCATION |
|---|---|---|---|---|
| IC5 | 1180002391 | S.REG S-812C33AMC-C2N-G | T | 49.9/4.1 |
| IC6 | 1180001071 | S.IC TA7805F (TE16L,Q) | T | 27.5/9.8 |
| IC7 | 1110005440 | S.IC NJM2374AM-TE1 | T | 4.7/13.3 |
| IC9 | 1130010630 | S.IC SN74AHCT541PWR | T | 96.4/30.8 |
| IC10 | 1130007301 | S.IC TC4W66FU (TE12L,F) | B | 19/21.5 |
| IC11 | 1180002391 | S.REG S-812C33AMC-C2N-G | T | 19.1/18 |
| IC12 | 1190001340 | S.IC M62334FP 600C | T | 49.2/57 |
| IC13 | 1130006891 | S.IC TC7S04FU (TE85R,F) | T | 29.7/26 |
| IC14 | 1110005430 | S.IC CMX589AD5 | T | 19.4/29.5 |
| IC15 | 1110002861 | S.IC TA75S393F (TE85R,F) | B | 08.5/40.1 |
| IC16 | 1130007111 | S.IC TC7W04FU (TE12L,F) | B | 68.8/29 |
| IC17 | 1140008650 | S.IC HN58X2464TI | T | 4.6/25.8 |
| IC18 | 1130008361 | S.IC TC7SHU04FU (TE85L,JF) | T | 7.2/45.6 |
| IC19 | 1130008361 | S.IC TC7SHU04FU (TE85L,JF) | B | 10.4/47.3 |
| IC20 | 1190001340 | S.IC M62334FP 600C | T | 49.2/44.2 |
| IC21 | 1120002870 | S.IC XCS20XL-4TQ144I | T | 27.3/51.6 |
| IC22 | 1130007281 | S.IC TC7S32FU (TE85R,F) | B | 68.9/41.2 |
| IC23 | 1110005731 | S.IC S-80928CNMC-G8Y-G | B | 90/51.6 |
| IC24 | 1130008361 | S.IC TC7SHU04FU (TE85L,JF) | T | 7/58.3 |
| IC25 | 1130008361 | S.IC TC7SHU04FU (TE85L,JF) | B | 8.2/60.2 |
| IC26 | 1140010091 | S.IC PD70F3102AGJ-33-8EU-A | T | 73.5/48.6 |
| IC27 | 1130007281 | S.IC TC7S32FU (TE85R,F) | B | 54.1/27.3 |
| IC28 | 1130012051 | S.IC FT232BL | T | 53.8/24.4 |
| IC29 | 1130009570 | S.IC BR93LC46F-WE2 | T | 66.8/23 |
| IC33 | 1120002960 | S.IC TC74AC541FT (EL) | T | 76.8/73 |
| IC36 | 1120002830 | S.IC NJM2125F-TE1 | T | 65.5/73.2 |
| | | | | |
| Q1 | 1590000430 | S.TR DTC144EUA T106 | T | 39.1/16.4 |
| Q2 | 1520000201 | S.TR 2SB798-T2-AZ DK | T | 34.5/20.2 |
| Q4 | 1590001400 | S.TR XP1214 (TX) | B | 20.7/24.6 |
| Q5 | 1590001400 | S.TR XP1214 (TX) | B | 27.2/23 |
| Q6 | 1590003500 | S.TR DTC114YE TL | B | 45.2/9.2 |
| Q7 | 1590000430 | S.TR DTC144EUA T106 | B | 20.9/34 |
| Q8 | 1530002280 | S.TR 2SC4081 T106 S | T | 46/7.5 |
| Q9 | 1520000201 | S.TR 2SB798-T2-AZ DK | B | 71.3/14.5 |
| Q10 | 1590000430 | S.TR DTC144EUA T106 | T | 34/32 |
| Q11 | 1590000430 | S.TR DTC144EUA T106 | B | 11.2/35.7 |
| Q12 | 1590000440 | S.TR DTA143ZUA T106 | B | 93.7/38.5 |
| Q13 | 1590003500 | S.TR DTC114YE TL | B | 06.2/35.5 |
| Q14 | 1590000430 | S.TR DTC144EUA T106 | B | 58/22.5 |
| | | | | |
| D2 | 1790000671 | S.DIO SB07-03C-TB-E | T | 10.8/6.9 |
| D3 | 1750000550 | S.DIO 1SS355 TE-17 | T | 43.4/9.4 |
| D4 | 1790000671 | S.DIO SB07-03C-TB-E | T | 15.7/17.6 |
| D5 | 1790000671 | S.DIO SB07-03C-TB-E | T | 41.9/13.3 |
| D6 | 1750000550 | S.DIO 1SS355 TE-17 | B | 11.4/40.1 |
| D7 | 1730002280 | S.ZEN MA8091-M (TX) | B | 110.1/47 |
| D8 | 1730002280 | S.ZEN MA8091-M (TX) | T | 110.8/36.1 |
| D9 | 1750000841 | S.VCP 1SV324 (TPH3,F) | T | 8.9/42 |
| D11 | 1750000550 | S.DIO 1SS355 TE-17 | B | 01.8/40.6 |
| D12 | 1750000550 | S.DIO 1SS355 TE-17 | B | 97.9/42.4 |
| D13 | 1750000550 | S.DIO 1SS355 TE-17 | B | 97.9/40.6 |
| D15 | 1750000841 | S.VCP 1SV324 (TPH3,F) | T | 9.1/61.6 |
| D16 | 1790001240 | S.DIO MA2S728-(TX) | T | 59.1/44.3 |
| D17 | 1790001240 | S.DIO MA2S728-(TX) | T | 58.9/46.8 |
| | | | | |
| X1 | 6050011240 | S.XTL CR-708 (16.384 MHz) | T | 3.7/45.9 |
| X2 | 6050011290 | S.XTL CR-715 (6 MHz) | T | 79.8/30.1 |
| X3 | 6050011700 | S.XTL CR-760 (9.8304 MHz) | T | 3.7/58.4 |
| X4 | 6050011290 | S.XTL CR-715 (6 MHz) | T | 43.5/25.1 |
| | | | | |
| L1 | 6200003590 | S.COL EXCCL3225U1 | B | 92.1/13 |
| L2 | 6200003590 | S.COL EXCCL3225U1 | B | 05.7/10.3 |
| L3 | 6200003590 | S.COL EXCCL3225U1 | T | 3.7/22.4 |
| L4 | 6190001561 | S.COL CDRH5D18NP-101NC | T | 10.7/18.5 |
| L5 | 6190001561 | S.COL CDRH5D18NP-101NC | T | 10.7/11.5 |
| L6 | 6200002041 | S.COL NLV25T-101J | B | 16.6/34.4 |
| L7 | 6200005741 | S.COL ELJRE 47NGFA | B | 3.6/31.7 |
| L8 | 6200005741 | S.COL ELJRE 47NGFA | B | 69.7/34.8 |
| L9 | 6200005741 | S.COL ELJRE 47NGFA | B | 105.5/44 |
| L10 | 6200005741 | S.COL ELJRE 47NGFA | B | 69.7/36.9 |
| L11 | 6200005741 | S.COL ELJRE 47NGFA | B | 55.7/37.5 |
| L12 | 6200006991 | S.COL ELJRE 56NGFA | B | 52.6/23.2 |
| L15 | 6200002041 | S.COL NLV25T-101J | T | 61.4/25.4 |
| L16 | 6200005741 | S.COL ELJRE 47NGFA | T | 61.5/23.5 |
| | | | | |
| R1 | 7030003560 | S.RES ERJ3GEYJ 103 V (10 k) | B | 91.2/16.2 |
| R3 | 7030003440 | S.RES ERJ3GEYJ 102 V (1 k) | T | 96.8/13.7 |
| R4 | 7030003440 | S.RES ERJ3GEYJ 102 V (1 k) | T | 98.3/13.7 |
| R5 | 7030003440 | S.RES ERJ3GEYJ 102 V (1 k) | T | 99.8/13.7 |

## [LOGIC-R UNIT]

| REF NO. | ORDER NO. | DESCRIPTION | M. | H/V LOCATION |
|---|---|---|---|---|
| R7 | 7030003320 | S.RES ERJ3GEYJ 101 V (100 ) | T | 02.8/13.7 |
| R8 | 7030003440 | S.RES ERJ3GEYJ 102 V (1 k) | T | 04.3/13.7 |
| R10 | 7030003440 | S.RES ERJ3GEYJ 102 V (1 k) | T | 07.3/13.7 |
| R13 | 7030003440 | S.RES ERJ3GEYJ 102 V (1 k) | T | 09.1/13.7 |
| R14 | 7030003320 | S.RES ERJ3GEYJ 101 V (100 ) | T | 80/13.7 |
| R15 | 7030003320 | S.RES ERJ3GEYJ 101 V (100 ) | T | 81.3/13.7 |
| R16 | 7030003440 | S.RES ERJ3GEYJ 102 V (1 k) | T | 82.6/13.7 |
| R17 | 7030003560 | S.RES ERJ3GEYJ 103 V (10 k) | T | 84/13.7 |
| R21 | 7030003560 | S.RES ERJ3GEYJ 103 V (10 k) | T | 86.2/17.5 |
| R22 | 7030003590 | S.RES ERJ3GEYJ 183 V (18 k) | T | 87.9/21 |
| R23 | 7030003590 | S.RES ERJ3GEYJ 183 V (18 k) | T | 86.2/21 |
| R29 | 7030000420 | S.RES MCR10EZHJ 2.2 k | T | 36.6/13.8 |
| R30 | 7030000420 | S.RES MCR10EZHJ 2.2 k | T | 36.6/11.9 |
| R31 | 7030003560 | S.RES ERJ3GEYJ 103 V (10 k) | T | 34.5/16.3 |
| R32 | 7030000180 | S.RES MCR10EZHJ 22 (220) | T | 33.2/13.8 |
| R33 | 7030000180 | S.RES MCR10EZHJ 22 (220) | T | 33.2/11.9 |
| R34 | 7030003480 | S.RES ERJ3GEYJ 222 V (2.2 k) | B | 94.3/18.4 |
| R38 | 7030003510 | S.RES ERJ3GEYJ 392 V (3.9 k) | B | 108/17.2 |
| R40 | 7030003470 | S.RES ERJ3GEYJ 182 V (1.8 k) | T | 83.4/15.9 |
| R41 | 7030003590 | S.RES ERJ3GEYJ 183 V (18 k) | B | 86.5/14.5 |
| R51 | 7030003600 | S.RES ERJ3GEYJ 223 V (22 k) | T | 5.3/18.9 |
| R52 | 7030003500 | S.RES ERJ3GEYJ 332 V (3.3 k) | T | 4/18.9 |
| R53 | 7030000020 | S.RES MCR10EZHJ 1 (010) | B | 4.3/10 |
| R60 | 7030003530 | S.RES ERJ3GEYJ 562 V (5.6 k) | T | 6.6/18.9 |
| R61 | 7030003640 | S.RES ERJ3GEYJ 473 V (47 k) | B | 48/9.7 |
| R62 | 7030003470 | S.RES ERJ3GEYJ 182 V (1.8 k) | B | 43.2/8.2 |
| R63 | 7030003320 | S.RES ERJ3GEYJ 101 V (100 ) | T | 29.7/23.8 |
| R64 | 7030003640 | S.RES ERJ3GEYJ 473 V (47 k) | B | 19.1/31.7 |
| R65 | 7030003640 | S.RES ERJ3GEYJ 473 V (47 k) | B | 19.1/30.5 |
| R66 | 7030003640 | S.RES ERJ3GEYJ 473 V (47 k) | B | 19.1/29.3 |
| R67 | 7030003440 | S.RES ERJ3GEYJ 102 V (1 k) | B | 19.1/28.1 |
| R68 | 7030003640 | S.RES ERJ3GEYJ 473 V (47 k) | B | 19.1/26.9 |
| R69 | 7030003800 | S.RES ERJ3GEYJ 105 V (1 M) | T | 25.4/25.1 |
| R70 | 7030003620 | S.RES ERJ3GEYJ 333 V (33 k) | T | 32/27.2 |
| R71 | 7030003640 | S.RES ERJ3GEYJ 473 V (47 k) | T | 31.4/29.6 |
| R72 | 7030003750 | S.RES ERJ3GEYJ 394 V (390 k) | B | 17.1/25.6 |
| R73 | 7030009340 | S.RES ERJ3GEYJ 275V (2.7 M) | B | 13.8/22.7 |
| R90 | 7030003520 | S.RES ERJ3GEYJ 472 V (4.7 k) | T | 45.2/10.7 |
| R91 | 7030003620 | S.RES ERJ3GEYJ 333 V (33 k) | B | 109.8/44 |
| R94 | 7030003640 | S.RES ERJ3GEYJ 473 V (47 k) | T | 14.2/23.3 |
| R115 | 7030003620 | S.RES ERJ3GEYJ 333 V (33 k) | B | 04.6/37.6 |
| R116 | 7030003620 | S.RES ERJ3GEYJ 333 V (33 k) | B | 104.6/39 |
| R117 | 7030003500 | S.RES ERJ3GEYJ 332 V (3.3 k) | B | 08.1/37.5 |
| R126 | 7030003600 | S.RES ERJ3GEYJ 223 V (22 k) | B | 09.2/34.5 |
| R127 | 7030003680 | S.RES ERJ3GEYJ 104 V (100 k) | B | 94.5/36.2 |
| R128 | 7030003490 | S.RES ERJ3GEYJ 272 V (2.7 k) | B | 04.5/34.2 |
| R129 | 7030003620 | S.RES ERJ3GEYJ 333 V (33 k) | B | 05.5/45.5 |
| R130 | 7030003370 | S.RES ERJ3GEYJ 271 V (270 ) | T | 7.2/50.1 |
| R131 | 7030003800 | S.RES ERJ3GEYJ 105 V (1 M) | T | 7.2/48.7 |
| R132 | 7030003440 | S.RES ERJ3GEYJ 102 V (1 k) | T | 10.5/50.8 |
| R133 | 7030003440 | S.RES ERJ3GEYJ 102 V (1 k) | B | 22.3/37.6 |
| R134 | 7030003640 | S.RES ERJ3GEYJ 473 V (47 k) | B | 66.3/41.2 |
| R135 | 7030003570 | S.RES ERJ3GEYJ 123 V (12 k) | B | 02.4/38.3 |
| R136 | 7030003640 | S.RES ERJ3GEYJ 473 V (47 k) | B | 00.9/38.3 |
| R137 | 7030003570 | S.RES ERJ3GEYJ 123 V (12 k) | T | 9.5/25.9 |
| R138 | 7030003570 | S.RES ERJ3GEYJ 123 V (12 k) | T | 5.2/28.9 |
| R139 | 7030003520 | S.RES ERJ3GEYJ 472 V (4.7 k) | B | 90.7/48.2 |
| R140 | 7030003680 | S.RES ERJ3GEYJ 104 V (100 k) | T | 9.1/49.4 |
| R141 | 7030003680 | S.RES ERJ3GEYJ 104 V (100 k) | T | 9.1/45.4 |
| R142 | 7030003320 | S.RES ERJ3GEYJ 101 V (100 ) | B | 13.2/44 |
| R143 | 7030003320 | S.RES ERJ3GEYJ 101 V (100 ) | B | 10.4/42.5 |
| R145 | 7030003620 | S.RES ERJ3GEYJ 333 V (33 k) | B | 66.2/35.5 |
| R146 | 7030003640 | S.RES ERJ3GEYJ 473 V (47 k) | B | 66.2/34 |
| R148 | 7030003860 | S.RES ERJ3GE JPW V | T | 68.5/30.1 |
| R149 | 7030003340 | S.RES ERJ3GEYJ 151 V (150 ) | B | 72.8/36.9 |
| R150 | 7030003360 | S.RES ERJ3GEYJ 221 V (220 ) | B | 92.2/48.2 |
| R151 | 7030003680 | S.RES ERJ3GEYJ 104 V (100 k) | T | 9.1/54.4 |
| R152 | 7030003680 | S.RES ERJ3GEYJ 104 V (100 k) | T | 9.1/58.4 |
| R153 | 7030003520 | S.RES ERJ3GEYJ 472 V (4.7 k) | T | 40.5/51.2 |
| R154 | 7030003860 | S.RES ERJ3GE JPW V | T | 57/40.9 |
| R155 | 7030003800 | S.RES ERJ3GEYJ 105 V (1 M) | T | 7/60.7 |
| R156 | 7030003400 | S.RES ERJ3GEYJ 471 V (470 ) | T | 7/62.2 |
| R157 | 7030003440 | S.RES ERJ3GEYJ 102 V (1 k) | T | 8.4/63.9 |
| R158 | 7030003640 | S.RES ERJ3GEYJ 473 V (47 k) | T | 40.8/59.3 |
| R159 | 7030003680 | S.RES ERJ3GEYJ 104 V (100 k) | B | 62.3/47 |
| R160 | 7030003640 | S.RES ERJ3GEYJ 473 V (47 k) | B | 62.5/49.3 |
| R161 | 7030003510 | S.RES ERJ3GEYJ 392 V (3.9 k) | B | 90/43.8 |
| R162 | 7030003320 | S.RES ERJ3GEYJ 101 V (100 ) | B | 8.2/56.5 |
| R163 | 7030003320 | S.RES ERJ3GEYJ 101 V (100 ) | B | 11.7/61.2 |
| R164 | 7030003860 | S.RES ERJ3GE JPW V | T | 37.7/63.5 |
| R165 | 7030003520 | S.RES ERJ3GEYJ 472 V (4.7 k) | T | 39.3/62.6 |
| R167 | 7030003640 | S.RES ERJ3GEYJ 473 V (47 k) | B | 58.8/57.3 |
| R168 | 7030003320 | S.RES ERJ3GEYJ 101 V (100 ) | T | 54.5/57.8 |
| R169 | 7030003320 | S.RES ERJ3GEYJ 101 V (100 ) | T | 54.5/56.4 |
| R170 | 7030003320 | S.RES ERJ3GEYJ 101 V (100 ) | T | 54.5/44.7 |

M.=Mounted side (T: Mounted on the Top side, B: Mounted on the Bottom side)
S.=Surface mount

## [LOGIC-R UNIT]

| REF NO. | ORDER NO. | DESCRIPTION | | M. | H/V LOCATION |
|---|---|---|---|---|---|
| R171 | 7030003320 | S.RES | ERJ3GEYJ 101 V (100 ) | T | 54.5/43.5 |
| R172 | 7030003340 | S.RES | ERJ3GEYJ 151 V (150 ) | B | 56.5/25.9 |
| R173 | 7030003640 | S.RES | ERJ3GEYJ 473 V (47 k) | B | 54/25.3 |
| R174 | 7030003580 | S.RES | ERJ3GEYJ 153 V (15 k) | B | 51/26.5 |
| R175 | 7030003550 | S.RES | ERJ3GEYJ 822 V (8.2 k) | B | 51/28 |
| R176 | 7030003460 | S.RES | ERJ3GEYJ 152 V (1.5 k) | T | 53.3/18 |
| R177 | 7030003400 | S.RES | ERJ3GEYJ 471 V (470 ) | B | 55.5/23.2 |
| R178 | 7030003860 | S.RES | ERJ3GE JPW V | B | 52/21 |
| R179 | 7030003560 | S.RES | ERJ3GEYJ 103 V (10 k) | B | 66.3/23.5 |
| R180 | 7030003480 | S.RES | ERJ3GEYJ 222 V (2.2 k) | B | 69/23.5 |
| R183 | 7030003680 | S.RES | ERJ3GEYJ 104 V (100 k) | B | 55.8/31.5 |
| R184 | 7030003460 | S.RES | ERJ3GEYJ 152 V (1.5 k) | T | 57.5/16.1 |
| R185 | 7030003200 | S.RES | ERJ3GEYJ 100 V (10 ) | T | 57.5/18.6 |
| R186 | 7030003200 | S.RES | ERJ3GEYJ 100 V (10 ) | T | 57.5/17.4 |
| R187 | 7030003560 | S.RES | ERJ3GEYJ 103 V (10 k) | T | 68.2/73 |
| R188 | 7030003560 | S.RES | ERJ3GEYJ 103 V (10 k) | B | 28.5/35.7 |
| R190 | 7030003320 | S.RES | ERJ3GEYJ 101 V (100 ) | T | 64.5/76 |
| R192 | 7030003860 | S.RES | ERJ3GE JPW V | T | 65.8/30.1 |
| R194 | 7030003860 | S.RES | ERJ3GE JPW V | T | 68.5/32.9 |
| R195 | 7030003520 | S.RES | ERJ3GEYJ 472 V (4.7 k) | B | 51/32.2 |
| R196 | 7030003440 | S.RES | ERJ3GEYJ 102 V (1 k) | B | 52.4/32.9 |
| | | | | | |
| C1 | 4030006860 | S.CER | C1608 JB 1H 102K-T | B | 91.2/17.5 |
| C3 | 4030006860 | S.CER | C1608 JB 1H 102K-T | B | 99.1/18.4 |
| C4 | 4030011600 | S.CER | C1608 JB 1E 104K-T | B | 99.1/20.2 |
| C5 | 4030011600 | S.CER | C1608 JB 1E 104K-T | T | 90.9/14.3 |
| C6 | 4030007090 | S.CER | C1608 CH 1H 470J-T | T | 109.1/17.5 |
| C13 | 4030006900 | S.CER | C1608 JB 1H 103K-T | B | 94.3/19.7 |
| C15 | 4030006860 | S.CER | C1608 JB 1H 102K-T | B | 06.6/12.5 |
| C16 | 4030007130 | S.CER | C1608 CH 1H 101J-T | B | 06.6/13.8 |
| C19 | 4030007090 | S.CER | C1608 CH 1H 470J-T | T | 07.3/17.5 |
| C21 | 4030007090 | S.CER | C1608 CH 1H 470J-T | T | 04.3/17.5 |
| C22 | 4030006850 | S.CER | C1608 JB 1H 471K-T | T | 02.8/17.5 |
| C24 | 4030007090 | S.CER | C1608 CH 1H 470J-T | T | 98.3/17.4 |
| C25 | 4030007090 | S.CER | C1608 CH 1H 470J-T | T | 96.8/17.4 |
| C26 | 4030007090 | S.CER | C1608 CH 1H 470J-T | B | 86.5/15.9 |
| C27 | 4030011810 | S.CER | C1608 JB 1A 224K-T | B | 86.5/17.3 |
| C28 | 4030006900 | S.CER | C1608 JB 1H 103K-T | T | 62.5/73.5 |
| C29 | 4030007090 | S.CER | C1608 CH 1H 470J-T | T | 34/26.5 |
| C30 | 4030007090 | S.CER | C1608 CH 1H 470J-T | B | 26.7/32.8 |
| C41 | 4510008490 | S.ELE | EEE1CS100SR | B | 24.2/5.6 |
| C42 | 4030011600 | S.CER | C1608 JB 1E 104K-T | T | 47.5/3.4 |
| C43 | 4510008520 | S.ELE | EEE1CA470SP | B | 29.7/5.2 |
| C44 | 4030011600 | S.CER | C1608 JB 1E 104K-T | T | 30.3/16.9 |
| C45 | 4510008850 | S.ELE | EEE1CA101P | B | 10.5/5.9 |
| C47 | 4030011600 | S.CER | C1608 JB 1E 104K-T | T | 95.4/35.7 |
| C48 | 4030008890 | S.CER | C1608 JB 1H 273K-T | B | 29.5/24 |
| C49 | 4030008890 | S.CER | C1608 JB 1H 273K-T | B | 25.1/20.8 |
| C56 | 4030011600 | S.CER | C1608 JB 1E 104K-T | T | 49.7/7 |
| C57 | 4550006250 | S.TAN | TEESVA 1A 106M8R | T | 48.6/10.7 |
| C58 | 4510007130 | S.ELE | EEFCD 0J 470R | T | 16.9/10.6 |
| C59 | 4030011600 | S.CER | C1608 JB 1E 104K-T | T | 27.2/16.4 |
| C60 | 4510008520 | S.ELE | EEE1CA470SP | B | 18.7/5.1 |
| C61 | 4030006850 | S.CER | C1608 JB 1H 471K-T | T | 27.2/17.6 |
| C62 | 4030011600 | S.CER | C1608 JB 1E 104K-T | T | 21.4/15.2 |
| C63 | 4030006850 | S.CER | C1608 JB 1H 471K-T | T | 6.1/7.7 |
| C64 | 4550006250 | S.TAN | TEESVA 1A 106M8R | T | 28.5/19.4 |
| C65 | 4030011600 | S.CER | C1608 JB 1E 104K-T | T | 27.7/21.8 |
| C66 | 4030007000 | S.CER | C1608 CH 1H 090D-T | T | 31.4/30.9 |
| C67 | 4030006900 | S.CER | C1608 JB 1H 103K-T | T | 27.2/24.5 |
| C68 | 4030011600 | S.CER | C1608 JB 1E 104K-T | T | 26.2/27 |
| C69 | 4030007130 | S.CER | C1608 CH 1H 101J-T | B | 25/23 |
| C70 | 4030012600 | S.CER | C2012 JB 1A 105M-T | B | 27/31.2 |
| C71 | 4030011600 | S.CER | C1608 JB 1E 104K-T | B | 26.8/29.6 |
| C72 | 4030006860 | S.CER | C1608 JB 1H 102K-T | B | 12.5/35 |
| C73 | 4030006860 | S.CER | C1608 JB 1H 102K-T | B | 12.5/33.8 |
| C74 | 4550006050 | S.TAN | TEESVA 0J 106M8R | T | 45.7/15.4 |
| C75 | 4030011600 | S.CER | C1608 JB 1E 104K-T | T | 21.5/19.7 |
| C76 | 4550006730 | S.TAN | TEESVB2 0J 226M8R | T | 18.1/22.5 |
| C77 | 4550006250 | S.TAN | TEESVA 1A 106M8R | T | 23.1/16 |
| C78 | 4550006050 | S.TAN | TEESVA 0J 106M8R | B | 68.8/32.3 |
| C80 | 4550006250 | S.TAN | TEESVA 1A 106M8R | B | 13.9/31.8 |
| C81 | 4030011600 | S.CER | C1608 JB 1E 104K-T | B | 14.7/29.9 |
| C82 | 4030011600 | S.CER | C1608 JB 1E 104K-T | B | 14.8/28.4 |
| C84 | 4030007090 | S.CER | C1608 CH 1H 470J-T | B | 09.8/45.3 |
| C85 | 4030006860 | S.CER | C1608 JB 1H 102K-T | T | 12.5/36.4 |
| C86 | 4030006900 | S.CER | C1608 JB 1H 103K-T | B | 58.7/58.9 |
| C87 | 4030006850 | S.CER | C1608 JB 1H 471K-T | B | 63.8/29.9 |
| C88 | 4030007050 | S.CER | C1608 CH 1H 220J-T | T | 7.2/51.4 |
| C89 | 4030009520 | S.CER | C1608 CH 1H 020B-T | T | 6.5/42 |
| C90 | 4030007040 | S.CER | C1608 CH 1H 180J-T | T | 10.3/45.4 |
| C91 | 4030011600 | S.CER | C1608 JB 1E 104K-T | B | 63.8/28.6 |
| C92 | 4030011600 | S.CER | C1608 JB 1E 104K-T | B | 3.6/29.9 |
| C93 | 4030006900 | S.CER | C1608 JB 1H 103K-T | B | 72.8/35.3 |
| C94 | 4030006900 | S.CER | C1608 JB 1H 103K-T | T | 9.8/47.4 |
| C95 | 4030006900 | S.CER | C1608 JB 1H 103K-T | T | 50.1/48 |
| C96 | 4030011600 | S.CER | C1608 JB 1E 104K-T | B | 10.5/45.2 |
| C97 | 4030006900 | S.CER | C1608 JB 1H 103K-T | B | 28.2/41.7 |
| C98 | 4030006860 | S.CER | C1608 JB 1H 102K-T | B | 70.6/43.1 |
| C99 | 4030008560 | S.CER | C1608 CH 1H 300J-T | T | 78.5/34.7 |

## [LOGIC-R UNIT]

| REF NO. | ORDER NO. | DESCRIPTION | | M. | H/V LOCATION |
|---|---|---|---|---|---|
| C100 | 4030008560 | S.CER | C1608 CH 1H 300J-T | T | 78.5/33.5 |
| C101 | 4030006900 | S.CER | C1608 JB 1H 103K-T | B | 90.3/54.2 |
| C102 | 4030006900 | S.CER | C1608 JB 1H 103K-T | T | 9.8/56.4 |
| C103 | 4030007080 | S.CER | C1608 CH 1H 390J-T | T | 10.4/58.4 |
| C105 | 4030011600 | S.CER | C1608 JB 1E 104K-T | B | 39/41.2 |
| C106 | 4550006780 | S.TAN | TEESVB2 0J 476M8R | B | 40/38.7 |
| C107 | 4030011600 | S.CER | C1608 JB 1E 104K-T | T | 59.6/40.9 |
| C108 | 4030007090 | S.CER | C1608 CH 1H 470J-T | B | 58.7/41.5 |
| C109 | 4030007040 | S.CER | C1608 CH 1H 180J-T | T | 5.5/63.4 |
| C110 | 4030006900 | S.CER | C1608 JB 1H 103K-T | B | 8.2/58 |
| C111 | 4030011600 | S.CER | C1608 JB 1E 104K-T | B | 15.1/63.2 |
| C112 | 4030011600 | S.CER | C1608 JB 1E 104K-T | T | 14.6/53.6 |
| C113 | 4030006900 | S.CER | C1608 JB 1H 103K-T | T | 27.6/65.1 |
| C115 | 4030007090 | S.CER | C1608 CH 1H 470J-T | B | 87.2/49.4 |
| C116 | 4030007090 | S.CER | C1608 CH 1H 470J-T | T | 88.6/53.6 |
| C117 | 4030011600 | S.CER | C1608 JB 1E 104K-T | T | 14.1/41.1 |
| C118 | 4030011600 | S.CER | C1608 JB 1E 104K-T | B | 93.1/65.9 |
| C119 | 4030007090 | S.CER | C1608 CH 1H 470J-T | B | 57.2/27.7 |
| C120 | 4030008560 | S.CER | C1608 CH 1H 300J-T | T | 48.1/24.8 |
| C121 | 4030008560 | S.CER | C1608 CH 1H 300J-T | T | 46.9/24.8 |
| C122 | 4030007090 | S.CER | C1608 CH 1H 470J-T | B | 63.6/64.2 |
| C123 | 4030007090 | S.CER | C1608 CH 1H 470J-T | B | 86.6/55.3 |
| C124 | 4030011600 | S.CER | C1608 JB 1E 104K-T | B | 93.2/64.4 |
| C125 | 4030007090 | S.CER | C1608 CH 1H 470J-T | B | 50.9/25.1 |
| C126 | 4030011600 | S.CER | C1608 JB 1E 104K-T | B | 55.5/22 |
| C127 | 4030011600 | S.CER | C1608 JB 1E 104K-T | B | 63.5/23.5 |
| C131 | 4030006900 | S.CER | C1608 JB 1H 103K-T | B | 53.9/32.9 |
| C132 | 4550006250 | S.TAN | TEESVA 1A 106M8R | B | 58/33.8 |
| C133 | 4030008900 | S.CER | C1608 JB 1H 333K-T | T | 54.3/16.7 |
| C136 | 4030011600 | S.CER | C1608 JB 1E 104K-T | T | 67.4/76 |
| C137 | 4030007130 | S.CER | C1608 CH 1H 101J-T | T | 60.5/22.2 |
| C138 | 4030007050 | S.CER | C1608 CH 1H 220J-T | B | 99.5/12.2 |
| C139 | 4030007050 | S.CER | C1608 CH 1H 220J-T | B | 98/12.2 |
| C140 | 4030006860 | S.CER | C1608 JB 1H 102K-T | B | 55.8/34.3 |
| C141 | 4550000460 | S.TAN | TEESVA 1C 105M8R | B | 95.1/21.5 |
| C142 | 4550000460 | S.TAN | TEESVA 1C 105M8R | B | 102.8/17 |
| C143 | 4550000460 | S.TAN | TEESVA 1C 105M8R | B | 81.4/13 |
| C144 | 4550000460 | S.TAN | TEESVA 1C 105M8R | T | 84.1/21.8 |
| C145 | 4510007400 | S.ELE | EEFCD 1C 8R2R | T | 11.6/2.8 |
| | | | | | |
| J1 | 6510022710 | S.CNR | 30FLZ-SM1-TB | T | 100.6/5.5 |
| J2 | 6510022710 | S.CNR | 30FLZ-SM1-TB | T | 78.8/5.5 |
| J4 | 6510019271 | S.CNR | 52365-0671 | T | 08.4/40.2 |
| J5 | 6510021431 | S.CNR | S8B-ZR-SM4A-TF (LF) (SN) | T | 95.6/75.4 |
| J6 | 6510023861 | S.CNR | S9B-ZR-SM4A-TF (LF) (SN) | B | 95/5.7 |
| | | | | | |
| W1 | 8900013161 | CBL | OPC-1313A | | |

## [LOGIC-T UNIT]

| REF NO. | ORDER NO. | DESCRIPTION | | M. | H/V LOCATION |
|---|---|---|---|---|---|
| IC1 | 1110005290 | S.IC | NJM2115V-TE1 | B | 28.3/49.1 |
| IC2 | 1110005290 | S.IC | NJM2115V-TE1 | B | 28.1/61.1 |
| IC3 | 1130007301 | S.IC | TC4W66FU (TE12L,F) | B | 103.5/20 |
| IC4 | 1110005290 | S.IC | NJM2115V-TE1 | B | 28.1/71.3 |
| IC5 | 1180002391 | S.REG | S-812C33AMC-C2N-G | T | 49.9/4.1 |
| IC6 | 1180001071 | S.IC | TA7805F (TE16L,Q) | T | 27.5/9.8 |
| IC7 | 1110005440 | S.IC | NJM2374AM-TE1 | T | 4.7/13.3 |
| IC9 | 1130010630 | S.IC | SN74AHCT541PWR | T | 96.4/30.8 |
| IC11 | 1180002391 | S.REG | S-812C33AMC-C2N-G | T | 18.9/18 |
| IC12 | 1190001340 | S.IC | M62334FP 600C | T | 49.2/57 |
| IC15 | 1110002861 | S.IC | TA75S393F (TE85R,F) | B | 08.5/40.1 |
| IC16 | 1130007111 | S.IC | TC7W04FU (TE12L,F) | B | 68.8/29 |
| IC17 | 1140008650 | S.IC | HN58X2464TI | T | 10.3/31.6 |
| IC18 | 1130008361 | S.IC | TC7SHU04FU (TE85L,JF) | T | 7.2/45.6 |
| IC19 | 1130008361 | S.IC | TC7SHU04FU (TE85L,JF) | B | 10.4/47.3 |
| IC20 | 1190001340 | S.IC | M62334FP 600C | T | 49.2/44.1 |
| IC21 | 1120002870 | S.IC | XCS20XL-4TQ144I | T | 27.3/51.6 |
| IC22 | 1130007281 | S.IC | TC7S32FU (TE85R,F) | B | 68.9/41.2 |
| IC23 | 1110005731 | S.IC | S-80928CNMC-G8Y-G | B | 90/51.6 |
| IC24 | 1130008361 | S.IC | TC7SHU04FU (TE85L,JF) | T | 7/58.4 |
| IC25 | 1130008361 | S.IC | TC7SHU04FU (TE85L,JF) | B | 8.2/60.2 |
| IC26 | 1140010091 | S.IC | PD70F3102AGJ-33-8EU-A | T | 73.5/48.6 |
| IC27 | 1130007281 | S.IC | TC7S32FU (TE85R,F) | B | 54.1/27.3 |
| IC28 | 1130012051 | S.IC | FT232BL | T | 53.8/24.4 |
| IC29 | 1130009570 | S.IC | BR93LC46F-WE2 | T | 66.8/23 |
| IC33 | 1120002960 | S.IC | TC74AC541FT (EL) | T | 76.8/73 |
| | | | | | |
| Q1 | 1590000430 | S.TR | DTC144EUA T106 | T | 39.1/16.4 |
| Q2 | 1520000201 | S.TR | 2SB798-T2-AZ DK | T | 34.5/20.2 |
| Q3 | 1590000430 | S.TR | DTC144EUA T106 | B | 104.2/23.1 |
| Q6 | 1590003500 | S.TR | DTC114YE TL | B | 46.1/15.2 |
| Q8 | 1530002280 | S.TR | 2SC4081 T106 S | T | 46.3/7.5 |

M.=Mounted side (T: Mounted on the Top side, B: Mounted on the Bottom side)
S.=Surface mount

## [LOGIC-T UNIT]

| REF NO. | ORDER NO. | DESCRIPTION | | M. | H/V LOCATION |
|---|---|---|---|---|---|
| Q9 | 1520000201 | S.TR | 2SB798-T2-AZ DK | B | 71.3/14.5 |
| Q11 | 1590000430 | S.TR | DTC144EUA T106 | B | 111.2/35.7 |
| Q12 | 1590000440 | S.TR | DTA143ZUA T106 | B | 93.7/38.5 |
| Q13 | 1590003500 | S.TR | DTC114YE TL | B | 107.4/35.4 |
| Q14 | 1590000430 | S.TR | DTC144EUA T106 | B | 58.9/22.6 |
| D2 | 1790000671 | S.DIO | SB07-03C-TB-E | T | 10.9/6.7 |
| D3 | 1750000550 | S.DIO | 1SS355 TE-17 | T | 43.4/10.5 |
| D4 | 1790000671 | S.DIO | SB07-03C-TB-E | T | 16.5/21.6 |
| D5 | 1790000671 | S.DIO | SB07-03C-TB-E | T | 42.1/14.5 |
| D6 | 1750000550 | S.DIO | 1SS355 TE-17 | B | 112.4/42.4 |
| D7 | 1730002280 | S.ZEN | MA8091-M (TX) | B | 110.1/47 |
| D8 | 1730002280 | S.ZEN | MA8091-M (TX) | T | 110.8/36.1 |
| D9 | 1750000841 | S.VCP | 1SV324 (TPH3,F) | T | 10/43.1 |
| D11 | 1750000550 | S.DIO | 1SS355 TE-17 | B | 101.8/40.5 |
| D12 | 1750000550 | S.DIO | 1SS355 TE-17 | B | 97.9/42.4 |
| D13 | 1750000550 | S.DIO | 1SS355 TE-17 | B | 97.9/40.6 |
| D15 | 1750000841 | S.VCP | 1SV324 (TPH3,F) | T | 10.1/60.6 |
| D16 | 1790001240 | S.DIO | MA2S728-(TX) | T | 59.1/44.3 |
| D17 | 1790001240 | S.DIO | MA2S728-(TX) | T | 59/46.7 |
| X1 | 6050011240 | S.XTL | CR-708 (16.384 MHz) | T | 3.7/45.9 |
| X2 | 6050011290 | S.XTL | CR-715 (6 MHz) | T | 80.9/30.8 |
| X3 | 6050011700 | S.XTL | CR-760 (9.8304 MHz) | T | 3.9/58.1 |
| X4 | 6050011290 | S.XTL | CR-715 (6 MHz) | T | 43.2/25.2 |
| L1 | 6200003590 | S.COL | EXCCL3225U1 | B | 92.1/13 |
| L2 | 6200003590 | S.COL | EXCCL3225U1 | B | 105.7/10.3 |
| L3 | 6200003590 | S.COL | EXCCL3225U1 | T | 4.1/22.6 |
| L4 | 6190001561 | S.COL | CDRH5D18NP-101NC | T | 10.7/18.5 |
| L5 | 6190001561 | S.COL | CDRH5D18NP-101NC | T | 10.7/11.5 |
| L7 | 6200005741 | S.COL | ELJRE 47NGFA | B | 3.7/30.5 |
| L8 | 6200005741 | S.COL | ELJRE 47NGFA | B | 69.7/34.9 |
| L9 | 6200005741 | S.COL | ELJRE 47NGFA | B | 105.3/44 |
| L10 | 6200005741 | S.COL | ELJRE 47NGFA | B | 69.7/36.9 |
| L11 | 6200005741 | S.COL | ELJRE 47NGFA | B | 56.4/37.5 |
| L12 | 6200006991 | S.COL | ELJRE 56NGFA | B | 52.6/23.2 |
| L15 | 6200002041 | S.COL | NLV25T-101J | T | 61.4/24.8 |
| L16 | 6200005741 | S.COL | ELJRE 47NGFA | T | 61.7/22.9 |
| R1 | 7030003560 | S.RES | ERJ3GEYJ 103 V (10 k) | B | 91.3/16.2 |
| R3 | 7030003440 | S.RES | ERJ3GEYJ 102 V (1 k) | T | 96.8/13.7 |
| R4 | 7030003440 | S.RES | ERJ3GEYJ 102 V (1 k) | T | 98.3/13.7 |
| R5 | 7030003440 | S.RES | ERJ3GEYJ 102 V (1 k) | T | 99.8/13.7 |
| R6 | 7030003440 | S.RES | ERJ3GEYJ 102 V (1 k) | T | 101.3/13.7 |
| R7 | 7030003320 | S.RES | ERJ3GEYJ 101 V (100 ) | T | 102.8/13.7 |
| R8 | 7030003440 | S.RES | ERJ3GEYJ 102 V (1 k) | T | 104.3/13.7 |
| R9 | 7030003440 | S.RES | ERJ3GEYJ 102 V (1 k) | T | 105.8/13.7 |
| R10 | 7030003440 | S.RES | ERJ3GEYJ 102 V (1 k) | T | 107.3/13.7 |
| R11 | 7030003440 | S.RES | ERJ3GEYJ 102 V (1 k) | T | 108.8/13.7 |
| R12 | 7030003320 | S.RES | ERJ3GEYJ 101 V (100 ) | T | 110.3/13.7 |
| R18 | 7030003440 | S.RES | ERJ3GEYJ 102 V (1 k) | B | 86.4/12.3 |
| R19 | 7030003440 | S.RES | ERJ3GEYJ 102 V (1 k) | B | 85/12.3 |
| R20 | 7030003560 | S.RES | ERJ3GEYJ 103 V (10 k) | T | 87.9/17.5 |
| R21 | 7030003560 | S.RES | ERJ3GEYJ 103 V (10 k) | T | 86.2/17.5 |
| R22 | 7030003590 | S.RES | ERJ3GEYJ 183 V (18 k) | T | 87.9/21 |
| R23 | 7030003590 | S.RES | ERJ3GEYJ 183 V (18 k) | T | 86.2/21 |
| R24 | 7030003480 | S.RES | ERJ3GEYJ 222 V (2.2 k) | B | 32.9/58.4 |
| R25 | 7030003600 | S.RES | ERJ3GEYJ 223 V (22 k) | B | 34.3/55.1 |
| R26 | 7030003480 | S.RES | ERJ3GEYJ 222 V (2.2 k) | B | 23.4/58.4 |
| R27 | 7030003320 | S.RES | ERJ3GEYJ 101 V (100 ) | B | 25.9/54.2 |
| R28 | 7030003320 | S.RES | ERJ3GEYJ 101 V (100 ) | B | 25.9/66 |
| R29 | 7030000420 | S.RES | MCR10EZHJ 2.2 k | T | 36.6/13.8 |
| R30 | 7030000420 | S.RES | MCR10EZHJ 2.2 k | T | 36.6/11.9 |
| R31 | 7030003560 | S.RES | ERJ3GEYJ 103 V (10 k) | T | 34.5/16.3 |
| R32 | 7030000180 | S.RES | MCR10EZHJ 22 (220) | T | 33.2/13.8 |
| R33 | 7030000180 | S.RES | MCR10EZHJ 22 (220) | T | 33.2/11.9 |
| R34 | 7030003480 | S.RES | ERJ3GEYJ 222 V (2.2 k) | B | 93.3/19.5 |
| R35 | 7030003440 | S.RES | ERJ3GEYJ 102 V (1 k) | T | 99.2/21.8 |
| R36 | 7030003440 | S.RES | ERJ3GEYJ 102 V (1 k) | T | 103.1/23.4 |
| R37 | 7030003640 | S.RES | ERJ3GEYJ 473 V (47 k) | B | 103.7/28.4 |
| R38 | 7030003470 | S.RES | ERJ3GEYJ 182 V (1.8 k) | B | 108/17.2 |
| R40 | 7030003470 | S.RES | ERJ3GEYJ 182 V (1.8 k) | T | 83.4/15.9 |
| R41 | 7030003590 | S.RES | ERJ3GEYJ 183 V (18 k) | B | 86.5/14.5 |
| R42 | 7030003480 | S.RES | ERJ3GEYJ 222 V (2.2 k) | B | 32.9/61.3 |
| R43 | 7030003480 | S.RES | ERJ3GEYJ 222 V (2.2 k) | B | 37.3/58.4 |
| R44 | 7030003480 | S.RES | ERJ3GEYJ 222 V (2.2 k) | B | 35.8/58.4 |
| R45 | 7030003480 | S.RES | ERJ3GEYJ 222 V (2.2 k) | B | 20.5/58.4 |
| R46 | 7030003480 | S.RES | ERJ3GEYJ 222 V (2.2 k) | B | 23.4/61.3 |
| R47 | 7030003480 | S.RES | ERJ3GEYJ 222 V (2.2 k) | B | 19.1/58.4 |
| R48 | 7030003320 | S.RES | ERJ3GEYJ 101 V (100 ) | B | 26/76.3 |
| R49 | 7030003600 | S.RES | ERJ3GEYJ 223 V (22 k) | B | 22.6/55 |
| R50 | 7030003860 | S.RES | ERJ3GE JPW V | T | 25.3/74.9 |
| R51 | 7030003600 | S.RES | ERJ3GEYJ 223 V (22 k) | T | 5.2/19.7 |
| R52 | 7030003500 | S.RES | ERJ3GEYJ 332 V (3.3 k) | T | 4/19.7 |
| R53 | 7030000020 | S.RES | MCR10EZHJ 1 (010) | B | 3.8/16.4 |
| R54 | 7030003530 | S.RES | ERJ3GEYJ 562 V (5.6 k) | B | 32.9/66 |

## [LOGIC-T UNIT]

| REF NO. | ORDER NO. | DESCRIPTION | | M. | H/V LOCATION |
|---|---|---|---|---|---|
| R55 | 7030003530 | S.RES | ERJ3GEYJ 562 V (5.6 k) | B | 34.3/68.8 |
| R56 | 7030003520 | S.RES | ERJ3GEYJ 472 V (4.7 k) | B | 34.3/71.5 |
| R57 | 7030003530 | S.RES | ERJ3GEYJ 562 V (5.6 k) | B | 23.4/66 |
| R58 | 7030003530 | S.RES | ERJ3GEYJ 562 V (5.6 k) | B | 21.9/68.8 |
| R59 | 7030003520 | S.RES | ERJ3GEYJ 472 V (4.7 k) | B | 21.9/71.6 |
| R60 | 7030003530 | S.RES | ERJ3GEYJ 562 V (5.6 k) | T | 6.6/19 |
| R61 | 7030003640 | S.RES | ERJ3GEYJ 473 V (47 k) | B | 48.5/13.5 |
| R62 | 7030003470 | S.RES | ERJ3GEYJ 182 V (1.8 k) | B | 44.8/12.5 |
| R64 | 7030003560 | S.RES | ERJ3GEYJ 103 V (10 k) | T | 29.8/35 |
| R65 | 7030003560 | S.RES | ERJ3GEYJ 103 V (10 k) | T | 31.2/35 |
| R74 | 7030005321 | S.RES | ERA3YED 103V (10 k) | T | 28.5/72.7 |
| R75 | 7030005321 | S.RES | ERA3YED 103V (10 k) | T | 29.5/71.4 |
| R76 | 7030005321 | S.RES | ERA3YED 103V (10 k) | T | 31.2/72.7 |
| R77 | 7030005321 | S.RES | ERA3YED 103V (10 k) | T | 32.2/71.4 |
| R78 | 7030005661 | S.RES | ERA3YED 203V (20 k) | T | 27.8/69.3 |
| R79 | 7030005321 | S.RES | ERA3YED 103V (10 k) | T | 13.8/72.7 |
| R80 | 7030005661 | S.RES | ERA3YED 203V (20 k) | T | 29.1/69.3 |
| R81 | 7030005321 | S.RES | ERA3YED 103V (10 k) | T | 15.3/71.4 |
| R82 | 7030005661 | S.RES | ERA3YED 203V (20 k) | T | 30.4/69.3 |
| R83 | 7030005321 | S.RES | ERA3YED 103V (10 k) | T | 16.5/72.7 |
| R84 | 7030005661 | S.RES | ERA3YED 203V (20 k) | T | 31.7/69.3 |
| R85 | 7030005321 | S.RES | ERA3YED 103V (10 k) | T | 18/71.4 |
| R86 | 7030005661 | S.RES | ERA3YED 203V (20 k) | T | 13.5/69.3 |
| R87 | 7030005661 | S.RES | ERA3YED 203V (20 k) | T | 14.8/69.3 |
| R88 | 7030005661 | S.RES | ERA3YED 203V (20 k) | T | 16.1/69.3 |
| R89 | 7030005661 | S.RES | ERA3YED 203V (20 k) | T | 17.4/69.3 |
| R90 | 7030003520 | S.RES | ERJ3GEYJ 472 V (4.7 k) | T | 45.2/10.7 |
| R91 | 7030003620 | S.RES | ERJ3GEYJ 333 V (33 k) | B | 109.8/44 |
| R92 | 7030003860 | S.RES | ERJ3GE JPW V | T | 47.7/61 |
| R93 | 7030003860 | S.RES | ERJ3GE JPW V | T | 48.9/61 |
| R95 | 7030005321 | S.RES | ERA3YED 103V (10 k) | T | 33.9/72.7 |
| R96 | 7030005321 | S.RES | ERA3YED 103V (10 k) | T | 34.9/71.4 |
| R97 | 7030005321 | S.RES | ERA3YED 103V (10 k) | T | 36.6/72.7 |
| R98 | 7030005321 | S.RES | ERA3YED 103V (10 k) | T | 37.6/71.4 |
| R99 | 7030005321 | S.RES | ERA3YED 103V (10 k) | T | 39.3/72.7 |
| R100 | 7030005661 | S.RES | ERA3YED 203V (20 k) | T | 33/69.3 |
| R101 | 7030005321 | S.RES | ERA3YED 103V (10 k) | T | 19.2/72.7 |
| R102 | 7030005661 | S.RES | ERA3YED 203V (20 k) | T | 34.3/69.3 |
| R103 | 7030005321 | S.RES | ERA3YED 103V (10 k) | T | 20.7/71.4 |
| R104 | 7030005661 | S.RES | ERA3YED 203V (20 k) | T | 35.6/69.3 |
| R105 | 7030005321 | S.RES | ERA3YED 103V (10 k) | T | 21.9/72.7 |
| R106 | 7030005661 | S.RES | ERA3YED 203V (20 k) | T | 36.9/69.3 |
| R107 | 7030005321 | S.RES | ERA3YED 103V (10 k) | T | 23.4/71.4 |
| R108 | 7030005661 | S.RES | ERA3YED 203V (20 k) | T | 38.2/69.3 |
| R109 | 7030005321 | S.RES | ERA3YED 103V (10 k) | T | 24.6/72.7 |
| R110 | 7030005661 | S.RES | ERA3YED 203V (20 k) | T | 18.7/69.3 |
| R111 | 7030005661 | S.RES | ERA3YED 203V (20 k) | T | 20/69.3 |
| R112 | 7030005661 | S.RES | ERA3YED 203V (20 k) | T | 21.3/69.3 |
| R113 | 7030005661 | S.RES | ERA3YED 203V (20 k) | T | 22.6/69.3 |
| R114 | 7030005661 | S.RES | ERA3YED 203V (20 k) | T | 23.9/69.3 |
| R115 | 7030003620 | S.RES | ERJ3GEYJ 333 V (33 k) | B | 104.6/37.6 |
| R116 | 7030003620 | S.RES | ERJ3GEYJ 333 V (33 k) | B | 104.6/39 |
| R117 | 7030003500 | S.RES | ERJ3GEYJ 332 V (3.3 k) | B | 108.2/37.4 |
| R118 | 7030005321 | S.RES | ERA3YED 103V (10 k) | T | 40.3/71.4 |
| R119 | 7030005661 | S.RES | ERA3YED 203V (20 k) | T | 41.3/73.5 |
| R120 | 7030005661 | S.RES | ERA3YED 203V (20 k) | T | 39.5/69.3 |
| R121 | 7030005321 | S.RES | ERA3YED 103V (10 k) | T | 26.1/71.4 |
| R122 | 7030005661 | S.RES | ERA3YED 203V (20 k) | T | 40.8/69.3 |
| R123 | 7030005661 | S.RES | ERA3YED 203V (20 k) | T | 26.6/73.4 |
| R124 | 7030005661 | S.RES | ERA3YED 203V (20 k) | T | 25.2/69.3 |
| R125 | 7030005661 | S.RES | ERA3YED 203V (20 k) | T | 26.5/69.3 |
| R126 | 7030003600 | S.RES | ERJ3GEYJ 223 V (22 k) | B | 105.3/32.9 |
| R127 | 7030003680 | S.RES | ERJ3GEYJ 104 V (100 k) | B | 92.9/36.3 |
| R128 | 7030003490 | S.RES | ERJ3GE JPW 272 V (2.7 k) | B | 104.6/35 |
| R129 | 7030003620 | S.RES | ERJ3GEYJ 333 V (33 k) | B | 106.1/46.3 |
| R130 | 7030003370 | S.RES | ERJ3GEYJ 271 V (270 ) | T | 7.2/50.1 |
| R131 | 7030003800 | S.RES | ERJ3GEYJ 105 V (1 M) | T | 7.2/48.7 |
| R132 | 7030003440 | S.RES | ERJ3GEYJ 102 V (1 k) | T | 10.5/50.8 |
| R134 | 7030003640 | S.RES | ERJ3GEYJ 473 V (47 k) | B | 66.3/41.2 |
| R135 | 7030003570 | S.RES | ERJ3GEYJ 123 V (12 k) | B | 102.4/38.1 |
| R136 | 7030003640 | S.RES | ERJ3GEYJ 473 V (47 k) | B | 100.9/38.1 |
| R137 | 7030003570 | S.RES | ERJ3GEYJ 123 V (12 k) | T | 7.4/27.9 |
| R138 | 7030003570 | S.RES | ERJ3GEYJ 123 V (12 k) | T | 10/26.1 |
| R139 | 7030003520 | S.RES | ERJ3GEYJ 472 V (4.7 k) | B | 89.1/48.9 |
| R140 | 7030003680 | S.RES | ERJ3GEYJ 104 V (100 k) | T | 9.1/49.4 |
| R141 | 7030003680 | S.RES | ERJ3GEYJ 104 V (100 k) | T | 9.1/45.4 |
| R142 | 7030003320 | S.RES | ERJ3GEYJ 101 V (100 ) | B | 13.6/44.3 |
| R143 | 7030003320 | S.RES | ERJ3GEYJ 101 V (100 ) | B | 12.9/40.4 |
| R145 | 7030003620 | S.RES | ERJ3GEYJ 333 V (33 k) | B | 66.2/35.5 |
| R146 | 7030003640 | S.RES | ERJ3GEYJ 473 V (47 k) | B | 66.2/34 |
| R148 | 7030003860 | S.RES | ERJ3GE JPW V | T | 68.5/30.1 |
| R149 | 7030003340 | S.RES | ERJ3GEYJ 151 V (150 ) | B | 72.8/36.9 |
| R150 | 7030003360 | S.RES | ERJ3GEYJ 221 V (220 ) | B | 91/48.2 |
| R151 | 7030003680 | S.RES | ERJ3GEYJ 104 V (100 k) | T | 9.1/54.2 |
| R152 | 7030003680 | S.RES | ERJ3GEYJ 104 V (100 k) | T | 9.1/58.2 |
| R153 | 7030003520 | S.RES | ERJ3GEYJ 472 V (4.7 k) | T | 40.5/51.2 |
| R154 | 7030003860 | S.RES | ERJ3GE JPW V | T | 57/40.9 |
| R155 | 7030003800 | S.RES | ERJ3GEYJ 105 V (1 M) | T | 7.1/60.5 |
| R156 | 7030003400 | S.RES | ERJ3GEYJ 471 V (470 ) | T | 7.1/61.7 |
| R157 | 7030003440 | S.RES | ERJ3GEYJ 102 V (1 k) | T | 9.7/62.9 |
| R158 | 7030003640 | S.RES | ERJ3GEYJ 473 V (47 k) | T | 40.8/59.3 |

M.=Mounted side (T: Mounted on the Top side, B: Mounted on the Bottom side)
S.=Surface mount

## [LOGIC-T UNIT]

| REF NO. | ORDER NO. | DESCRIPTION | M. | H/V LOCATION |
|---|---|---|---|---|
| R159 | 7030003680 | S.RES ERJ3GEYJ 104 V (100 k) | B | 58.8/47.1 |
| R160 | 7030003640 | S.RES ERJ3GEYJ 473 V (47 k) | B | 59.3/50.1 |
| R161 | 7030003510 | S.RES ERJ3GEYJ 392 V (3.9 k) | B | 90/43.8 |
| R162 | 7030003320 | S.RES ERJ3GEYJ 101 V (100 ) | B | 7.5/56 |
| R163 | 7030003320 | S.RES ERJ3GEYJ 101 V (100 ) | B | 9.8/62.5 |
| R164 | 7030003860 | S.RES ERJ3GE JPW V | T | 43.8/67.1 |
| R165 | 7030003520 | S.RES ERJ3GEYJ 472 V (4.7 k) | T | 39.3/62.6 |
| R166 | 7030003860 | S.RES ERJ3GE JPW V | B | 28.4/76.5 |
| R167 | 7030003640 | S.RES ERJ3GEYJ 473 V (47 k) | B | 58.8/57.3 |
| R168 | 7030003320 | S.RES ERJ3GEYJ 101 V (100 ) | T | 54.5/57.8 |
| R169 | 7030003320 | S.RES ERJ3GEYJ 101 V (100 ) | T | 54.5/56.4 |
| R170 | 7030003320 | S.RES ERJ3GEYJ 101 V (100 ) | T | 54.3/45.7 |
| R171 | 7030003320 | S.RES ERJ3GEYJ 101 V (100 ) | T | 54.3/43.5 |
| R172 | 7030003340 | S.RES ERJ3GEYJ 151 V (150 ) | B | 56.5/25.9 |
| R173 | 7030003640 | S.RES ERJ3GEYJ 473 V (47 k) | B | 54/25.3 |
| R174 | 7030003580 | S.RES ERJ3GEYJ 153 V (15 k) | B | 51.1/25.8 |
| R175 | 7030003550 | S.RES ERJ3GEYJ 822 V (8.2 k) | B | 51.1/27.3 |
| R176 | 7030003460 | S.RES ERJ3GEYJ 152 V (1.5 k) | T | 53.3/18 |
| R177 | 7030003400 | S.RES ERJ3GEYJ 471 V (470 ) | B | 55.9/23.2 |
| R178 | 7030003860 | S.RES ERJ3GE JPW V | B | 50.3/20.4 |
| R179 | 7030003560 | S.RES ERJ3GEYJ 103 V (10 k) | B | 65.9/23.5 |
| R180 | 7030003480 | S.RES ERJ3GEYJ 222 V (2.2 k) | B | 68.5/24.3 |
| R183 | 7030003680 | S.RES ERJ3GEYJ 104 V (100 k) | B | 55.8/31.5 |
| R184 | 7030003460 | S.RES ERJ3GEYJ 152 V (1.5 k) | T | 56.9/16.6 |
| R185 | 7030003200 | S.RES ERJ3GEYJ 100 V (10 ) | T | 58.8/19 |
| R186 | 7030003200 | S.RES ERJ3GEYJ 100 V (10 ) | T | 56.9/18.4 |
| R188 | 7030003500 | S.RES ERJ3GEYJ 332 V (3.3 k) | T | 85.2/76.3 |
| R189 | 7030003500 | S.RES ERJ3GEYJ 332 V (3.3 k) | T | 85.2/73.1 |
| R192 | 7030003860 | S.RES ERJ3GE JPW V | T | 65.8/30.1 |
| R193 | 7030003860 | S.RES ERJ3GE JPW V | T | 68.5/34.3 |
| R194 | 7030003520 | S.RES ERJ3GEYJ 472 V (4.7 k) | T | 03.1/24.7 |
| R195 | 7030003520 | S.RES ERJ3GEYJ 472 V (4.7 k) | B | 50.9/32.2 |
| R196 | 7030003440 | S.RES ERJ3GEYJ 102 V (1 k) | B | 52.4/31.5 |
| R197 | 7030003520 | S.RES ERJ3GEYJ 472 V (4.7 k) | T | 99.2/20.3 |
| C1 | 4030006860 | S.CER C1608 JB 1H 102K-T | B | 90.6/18.3 |
| C2 | 4030006900 | S.CER C1608 JB 1H 103K-T | B | 01.5/23.2 |
| C3 | 4030006860 | S.CER C1608 JB 1H 102K-T | B | 98.6/18.4 |
| C4 | 4030011600 | S.CER C1608 JB 1E 104K-T | B | 98.6/20.2 |
| C5 | 4030011600 | S.CER C1608 JB 1E 104K-T | B | 94.4/15.3 |
| C7 | 4030007090 | S.CER C1608 CH 1H 470J-T | T | 10.3/17.5 |
| C8 | 4030010760 | S.CER C1608 CH 1H 331J-T | B | 30/55.7 |
| C9 | 4550005980 | S.TAN TEESVA 1A 475M8R | B | 34.3/50.1 |
| C10 | 4030010760 | S.CER C1608 CH 1H 331J-T | B | 26.9/55.7 |
| C11 | 4550006250 | S.TAN TEESVA 1A 106M8R | B | 26.8/52.3 |
| C12 | 4550006250 | S.TAN TEESVA 1A 106M8R | B | 26.8/64.2 |
| C13 | 4030006900 | S.CER C1608 JB 1H 103K-T | B | 93.3/20.7 |
| C14 | 4030006900 | S.CER C1608 JB 1H 103K-T | T | 02.5/20.6 |
| C15 | 4030006860 | S.CER C1608 JB 1H 102K-T | B | 06.6/12.5 |
| C16 | 4030007130 | S.CER C1608 CH 1H 101J-T | B | 06.6/13.8 |
| C18 | 4030007090 | S.CER C1608 CH 1H 470J-T | T | 08.8/17.5 |
| C19 | 4030007090 | S.CER C1608 CH 1H 470J-T | T | 07.3/17.5 |
| C20 | 4030007090 | S.CER C1608 CH 1H 470J-T | T | 05.8/17.5 |
| C21 | 4030007090 | S.CER C1608 CH 1H 470J-T | T | 04.3/17.5 |
| C22 | 4030006850 | S.CER C1608 JB 1H 471K-T | T | 02.8/17.5 |
| C23 | 4030007090 | S.CER C1608 CH 1H 470J-T | T | 01.3/17.5 |
| C24 | 4030007090 | S.CER C1608 CH 1H 470J-T | T | 98.3/17.5 |
| C25 | 4030007090 | S.CER C1608 CH 1H 470J-T | T | 96.8/17.5 |
| C31 | 4030007170 | S.CER C1608 CH 1H 221J-T | B | 30/57.7 |
| C32 | 4030007170 | S.CER C1608 CH 1H 221J-T | B | 34.3/58.4 |
| C33 | 4030007170 | S.CER C1608 CH 1H 221J-T | B | 31.2/57.7 |
| C34 | 4030007170 | S.CER C1608 CH 1H 221J-T | B | 34.3/61.3 |
| C35 | 4030007170 | S.CER C1608 CH 1H 221J-T | B | 24.9/57.7 |
| C36 | 4030007170 | S.CER C1608 CH 1H 221J-T | B | 26.1/57.7 |
| C37 | 4550005980 | S.TAN TEESVA 1A 475M8R | B | 22.6/50.1 |
| C38 | 4030007170 | S.CER C1608 CH 1H 221J-T | B | 21.9/58.4 |
| C39 | 4030007170 | S.CER C1608 CH 1H 221J-T | B | 21.9/61.3 |
| C40 | 4550006250 | S.TAN TEESVA 1A 106M8R | B | 26.8/74.4 |
| C41 | 4510008490 | S.ELE EEE1CS100SR | B | 42.8/28.6 |
| C42 | 4030011600 | S.CER C1608 JB 1E 104K-T | T | 45.5/3.8 |
| C43 | 4510008520 | S.ELE EEE1CA470SP | B | 43.2/22.9 |
| C44 | 4030011600 | S.CER C1608 JB 1E 104K-T | T | 29.7/17.7 |
| C45 | 4510008850 | S.ELE EEE1CA101P | B | 11.8/11.3 |
| C47 | 4030011600 | S.CER C1608 JB 1E 104K-T | T | 95.4/35.7 |
| C50 | 4030009490 | S.CER C1608 JB 1H 821K-T | B | 34.3/66 |
| C51 | 4030007140 | S.CER C1608 CH 1H 121J-T | B | 30.1/67.2 |
| C52 | 4030009490 | S.CER C1608 JB 1H 821K-T | B | 21.9/66 |
| C53 | 4030010040 | S.CER C1608 JB 1H 561K-T | B | 30.1/68.5 |
| C54 | 4030007140 | S.CER C1608 CH 1H 121J-T | B | 26.7/67.2 |
| C55 | 4030010040 | S.CER C1608 JB 1H 561K-T | B | 26.7/68.5 |
| C56 | 4030011600 | S.CER C1608 JB 1E 104K-T | T | 49.7/7 |
| C57 | 4550006250 | S.TAN TEESVA 1A 106M8R | T | 48.6/10.7 |
| C58 | 4510007130 | S.ELE EEFCD 0J 470R | T | 16.9/10.6 |
| C59 | 4030011600 | S.CER C1608 JB 1E 104K-T | T | 27.1/17.2 |
| C60 | 4510008520 | S.ELE EEE1CA470SP | B | 23/10.9 |
| C61 | 4030006850 | S.CER C1608 JB 1H 471K-T | T | 27.1/18.6 |
| C62 | 4030011600 | S.CER C1608 JB 1E 104K-T | T | 23.5/13.8 |
| C63 | 4030006850 | S.CER C1608 JB 1H 471K-T | T | 6.1/7.7 |
| C64 | 4550006250 | S.TAN TEESVA 1A 106M8R | T | 28/20.3 |
| C65 | 4030011600 | S.CER C1608 JB 1E 104K-T | T | 27.2/22 |

## [LOGIC-T UNIT]

| REF NO. | ORDER NO. | DESCRIPTION | M. | H/V LOCATION |
|---|---|---|---|---|
| C74 | 4550006050 | S.TAN TEESVA 0J 106M8R | T | 45.7/16.2 |
| C75 | 4030011600 | S.CER C1608 JB 1E 104K-T | T | 21.5/19.7 |
| C76 | 4550006730 | S.TAN TEESVB2 0J 226M8R | T | 15.6/26.6 |
| C77 | 4550006250 | S.TAN TEESVA 1A 106M8R | T | 24.4/19.9 |
| C78 | 4550006050 | S.TAN TEESVA 0J 106M8R | B | 72.2/32.2 |
| C79 | 4030007090 | S.CER C1608 CH 1H 470J-T | T | 44.6/55.6 |
| C84 | 4030007090 | S.CER C1608 CH 1H 470J-T | B | 09.8/45.3 |
| C85 | 4030006860 | S.CER C1608 JB 1H 102K-T | T | 113/36.3 |
| C86 | 4030006900 | S.CER C1608 JB 1H 103K-T | B | 56.3/49.3 |
| C87 | 4030006850 | S.CER C1608 JB 1H 471K-T | B | 63.8/29.9 |
| C88 | 4030007050 | S.CER C1608 CH 1H 220J-T | T | 7.2/51.4 |
| C89 | 4030009520 | S.CER C1608 CH 1H 020B-T | T | 6.4/41.9 |
| C90 | 4030007040 | S.CER C1608 CH 1H 180J-T | T | 10.5/45.4 |
| C91 | 4030011600 | S.CER C1608 JB 1E 104K-T | B | 64.5/27.8 |
| C92 | 4030011600 | S.CER C1608 JB 1E 104K-T | B | 3.7/29.3 |
| C93 | 4030006900 | S.CER C1608 JB 1H 103K-T | B | 72.8/35.3 |
| C94 | 4030006900 | S.CER C1608 JB 1H 103K-T | T | 9.8/47.4 |
| C95 | 4030006900 | S.CER C1608 JB 1H 103K-T | T | 50.8/48.9 |
| C96 | 4030011600 | S.CER C1608 JB 1E 104K-T | B | 10.5/44.3 |
| C97 | 4030006900 | S.CER C1608 JB 1H 103K-T | B | 26.4/37.7 |
| C98 | 4030006860 | S.CER C1608 JB 1H 102K-T | B | 70.6/43.1 |
| C99 | 4030008560 | S.CER C1608 CH 1H 300J-T | T | 78.5/34.4 |
| C100 | 4030008560 | S.CER C1608 CH 1H 300J-T | T | 79.2/35.6 |
| C101 | 4030006900 | S.CER C1608 JB 1H 103K-T | B | 90.2/54 |
| C102 | 4030006900 | S.CER C1608 JB 1H 103K-T | T | 9.9/56.3 |
| C103 | 4030007080 | S.CER C1608 CH 1H 390J-T | T | 10.6/58.2 |
| C105 | 4030011600 | S.CER C1608 JB 1E 104K-T | B | 39.8/41.3 |
| C106 | 4550006780 | S.TAN TEESVB2 0J 476M8R | B | 41/38.8 |
| C107 | 4030011600 | S.CER C1608 JB 1E 104K-T | T | 59.6/40.9 |
| C108 | 4030007090 | S.CER C1608 CH 1H 470J-T | B | 55.5/42.3 |
| C109 | 4030007040 | S.CER C1608 CH 1H 180J-T | T | 5.6/62.9 |
| C110 | 4030006900 | S.CER C1608 JB 1H 103K-T | B | 8.2/58 |
| C111 | 4030011600 | S.CER C1608 JB 1E 104K-T | B | 16.5/59.7 |
| C112 | 4030011600 | S.CER C1608 JB 1E 104K-T | T | 43/65.1 |
| C113 | 4030006900 | S.CER C1608 JB 1H 103K-T | T | 45/62.4 |
| C114 | 4030007090 | S.CER C1608 CH 1H 470J-T | T | 90/51.1 |
| C116 | 4030007090 | S.CER C1608 CH 1H 470J-T | T | 88.7/54.1 |
| C117 | 4030011600 | S.CER C1608 JB 1E 104K-T | T | 45/63.6 |
| C118 | 4030011600 | S.CER C1608 JB 1E 104K-T | B | 92.8/68 |
| C119 | 4030007090 | S.CER C1608 CH 1H 470J-T | B | 59.1/29.4 |
| C120 | 4030008560 | S.CER C1608 CH 1H 300J-T | T | 46.5/24.9 |
| C121 | 4030008560 | S.CER C1608 CH 1H 300J-T | T | 47.8/24.1 |
| C122 | 4030007090 | S.CER C1608 CH 1H 470J-T | B | 63.5/65.3 |
| C123 | 4030007090 | S.CER C1608 CH 1H 470J-T | B | 86.6/55.3 |
| C124 | 4030011600 | S.CER C1608 JB 1E 104K-T | B | 92.8/63.5 |
| C125 | 4030007090 | S.CER C1608 CH 1H 470J-T | B | 50.4/23.8 |
| C126 | 4030011600 | S.CER C1608 JB 1E 104K-T | B | 55.2/21.2 |
| C127 | 4030011600 | S.CER C1608 JB 1E 104K-T | B | 65.8/25.5 |
| C131 | 4030006900 | S.CER C1608 JB 1H 103K-T | B | 53.9/31.5 |
| C132 | 4550006250 | S.TAN TEESVA 1A 106M8R | B | 59.6/33.9 |
| C133 | 4030008900 | S.CER C1608 JB 1H 333K-T | T | 54.3/16.7 |
| C137 | 4030007130 | S.CER C1608 CH 1H 101J-T | T | 61.7/21.3 |
| C138 | 4030007050 | S.CER C1608 CH 1H 220J-T | B | 99.5/12.2 |
| C139 | 4030007050 | S.CER C1608 CH 1H 220J-T | B | 98/12.2 |
| C140 | 4030006860 | S.CER C1608 JB 1H 102K-T | B | 56.8/34.5 |
| C141 | 4550000460 | S.TAN TEESVA 1C 105M8R | B | 94.1/22.4 |
| C142 | 4550000460 | S.TAN TEESVA 1C 105M8R | B | 102.8/17 |
| C143 | 4550000460 | S.TAN TEESVA 1C 105M8R | B | 81.4/13 |
| C144 | 4550000460 | S.TAN TEESVA 1C 105M8R | T | 84.1/21.8 |
| C145 | 4550000460 | S.TAN TEESVA 1C 105M8R | T | 90.2/21.8 |
| C146 | 4510007400 | S.ELE EEFCD 1C 8R2R | T | 12.8/2.7 |
| C147 | 4030006900 | S.CER C1608 JB 1H 103K-T | T | 85.1/71.6 |
| J1 | 6510022710 | S.CNR 30FLZ-SM1-TB | T | 100.6/5.5 |
| J2 | 6510022710 | S.CNR 30FLZ-SM1-TB | T | 78.8/5.5 |
| J4 | 6510019271 | S.CNR 52365-0671 | T | 08.4/40.2 |
| J5 | 6510021431 | S.CNR S8B-ZR-SM4A-TF (LF) (SN) | T | 95.6/75.4 |
| J6 | 6510023861 | S.CNR S9B-ZR-SM4A-TF (LF) (SN) | B | 95/5.7 |
| W1 | 8900013180 | CBL OPC-1312 | | |

## [MAIN-R UNIT]

| REF NO. | ORDER NO. | DESCRIPTION | M. | H/V LOCATION |
|---|---|---|---|---|
| IC2 | 1180001071 | S.IC TA7805F (TE16L,Q) | T | 0.5/110.5 |
| IC3 | 1180002020 | S.REG BA033FP-E2 | T | 13/93.5 |
| IC4 | 1110005290 | S.IC NJM2115V-TE1 | T | 78.7/25 |
| IC5 | 1110006670 | S.IC NJM2730F-TE1 | T | 78.5/14.2 |
| IC7 | 1110003201 | S.IC TA31136FNG (EL) | T | 100.8/16 |
| IC8 | 1110006670 | S.IC NJM2730F-TE1 | T | 31.3/62.2 |
| IC9 | 1140005991 | S.IC MB15A02PFV1-G-BND-ERE1 | T | 42.7/72 |
| IC10 | 1190002051 | S.IC SPM5001-TL-E | T | 110.3/70.6 |
| IC11 | 1180001071 | S.IC TA7805F (TE16L,Q) | T | 67.5/110.2 |

M.=Mounted side (T: Mounted on the Top side, B: Mounted on the Bottom side)
S.=Surface mount

## [MAIN-R UNIT]

| REF NO. | ORDER NO. | DESCRIPTION | M. | H/V LOCATION |
|---|---|---|---|---|
| Q1 | 1590000430 | S.TR DTC144EUA T106 | T | 46.5/97.7 |
| Q2 | 1590000430 | S.TR DTC144EUA T106 | T | 31.2/97.5 |
| Q3 | 1510000581 | S.TR 2SA1362-GR (TE85R,F) | T | 35.7/97.5 |
| Q4 | 1510000581 | S.TR 2SA1362-GR (TE85R,F) | T | 51.5/98 |
| Q5 | 1530002691 | S.TR 2SC4116-GR (TE85R,F) | B | 105.9/26.1 |
| Q6 | 1560000670 | S.FET 2SK1771 (TE85L) | T | 116.1/39.5 |
| Q7 | 1530002691 | S.TR 2SC4116-GR (TE85R,F) | T | 50/65.5 |
| Q9 | 1560000491 | S.FET 2SK508-T2B-A K52 | T | 66.6/65 |
| Q10 | 1530003581 | S.TR 2SC5231C8-TL-E | T | 64.6/70.2 |
| Q11 | 1530003581 | S.TR 2SC5231C8-TL-E | T | 70.2/73.5 |
| Q12 | 1530002880 | S.TR 2SC4226-T1 R24 | T | 86/68.3 |
| Q13 | 1560000531 | S.FET 2SK880-GR (TE85R,F) | T | 10.2/31.8 |
| Q14 | 1530003820 | S.TR 2SC5337QS-T1 | B | 112.1/95.8 |
| | | | | |
| D1 | 1790000700 | DIO DSA3A1 | | |
| D2 | 1720000781 | S.VCP HVU350BTRF-E | T | 68.5/62.4 |
| D3 | 1790000491 | S.DIO HSM88ASTR-E | T | 109.6/31 |
| | | | | |
| FI1 | 2020001460 | CER CFWLA450KHFA-B0 | | |
| FI2 | 2030000490 | S.MLH FL-398 (46.35 MHz) | T | 114.9/53.5 |
| FI3 | 2040001920 | S.SAW SAFCH146MAL0N00R11 | B | 113.5/81.9 |
| FI4 | 2040001920 | S.SAW SAFCH146MAL0N00R11 | B | 118.9/107.5 |
| | | | | |
| X1 | 6070000190 | S.DCR CDBCB450KCAY24-R0 | T | 92.2/15.5 |
| X2 | 6050012380 | S.XTL CR-826 (15.3 MHz) | T | 17.7/36.3 |
| | | | | |
| L2 | 6200004480 | S.COL MLF1608D R82K-T | B | 107.4/21.4 |
| L3 | 6200003540 | S.COL MLF1608D R22K-T | B | 108/26 |
| L4 | 6200007120 | S.COL ELJND 1R0J | T | 114.6/36.3 |
| L6 | 6200003640 | S.COL MLF1608E 100K-T | T | 69.3/59.7 |
| L7 | 6200009351 | S.COL ELJRE R22GFA | T | 57.7/66.2 |
| L9 | 6200010610 | S.COL C6342A-50NG-A | T | 62.4/62.5 |
| L10 | 6200005741 | S.COL ELJRE 47NGFA | T | 62.8/69.4 |
| L12 | 6130003000 | S.COL #617DB-1714=P3 | T | 110.3/65.2 |
| L13 | 6200005741 | S.COL ELJRE 47NGFA | T | 96.8/67.4 |
| L14 | 6130003000 | S.COL #617DB-1714=P3 | T | 104.6/70.5 |
| L15 | 6200005741 | S.COL ELJRE 47NGFA | T | 93.8/67.4 |
| L16 | 6200009571 | S.COL ELJRE R12GFA | T | 69.9/75.5 |
| L17 | 6130003000 | S.COL #617DB-1714=P3 | T | 110.3/76 |
| L18 | 6200005140 | S.COL MLF1608D R33K-T | T | 85.9/71.5 |
| L19 | 6200005741 | S.COL ELJRE 47NGFA | T | 49.5/79 |
| L20 | 6200005731 | S.COL ELJRE 39NGFA | T | 83.4/68.1 |
| L21 | 6200005741 | S.COL ELJRE 47NGFA | T | 52.5/78.9 |
| L22 | 6200010860 | S.COL C2520C-R10G-A (0.1U) | B | 113.5/76.6 |
| L23 | 6200010860 | S.COL C2520C-R10G-A (0.1U) | B | 113.5/87.2 |
| L24 | 6200010760 | S.COL C2520C-27NG-A | B | 106.6/95.8 |
| L28 | 6200010720 | S.COL C2520C-56NG-A | B | 15.4/117.3 |
| L30 | 6200010860 | S.COL C2520C-R10G-A (0.1U) | B | 18.9/102.3 |
| L31 | 6200010860 | S.COL C2520C-R10G-A (0.1U) | B | 18.9/112.7 |
| | | | | |
| R1 | 7030003530 | S.RES ERJ3GEYJ 562 V (5.6 k) | T | 20.5/87.3 |
| R2 | 7510001670 | S.TMR NTCG16 4BH 103KT | T | 19.2/87.2 |
| R3 | 7030003450 | S.RES ERJ3GEYJ 122 V (1.2 k) | T | 20.5/84.5 |
| R4 | 7540000280 | S.ASB ERZVF2M220 | B | 71.2/123.7 |
| R5 | 7030003860 | S.RES ERJ3GE JPW V | B | 36.5/109.2 |
| R6 | 7030003320 | S.RES ERJ3GEYJ 101 V (100 ) | T | 35.7/77.5 |
| R8 | 7030003320 | S.RES ERJ3GEYJ 101 V (100 ) | T | 73.1/4.7 |
| R9 | 7030003320 | S.RES ERJ3GEYJ 101 V (100 ) | T | 76/19.3 |
| R11 | 7030003320 | S.RES ERJ3GEYJ 101 V (100 ) | T | 74.8/11.8 |
| R12 | 7030003320 | S.RES ERJ3GEYJ 101 V (100 ) | T | 57.2/103.5 |
| R13 | 7030003860 | S.RES ERJ3GE JPW V | T | 21/91.2 |
| R14 | 7030003700 | S.RES ERJ3GEYJ 154 V (150 k) | T | 78.3/18.6 |
| R15 | 7030003640 | S.RES ERJ3GEYJ 473 V (47 k) | T | 74.8/14.6 |
| R17 | 7030003650 | S.RES ERJ3GEYJ 563 V (56 k) | T | 81.1/18.6 |
| R18 | 7030003560 | S.RES ERJ3GEYJ 103 V (10 k) | T | 81.2/15.3 |
| R19 | 7030003320 | S.RES ERJ3GEYJ 101 V (100 ) | T | 74.6/28.4 |
| R20 | 7030003580 | S.RES ERJ3GEYJ 153 V (15 k) | T | 78.2/16.6 |
| R23 | 7030003650 | S.RES ERJ3GEYJ 563 V (56 k) | T | 75.5/23.5 |
| R24 | 7030003640 | S.RES ERJ3GEYJ 473 V (47 k) | T | 82.5/15.3 |
| R25 | 7030003320 | S.RES ERJ3GEYJ 101 V (100 ) | T | 78.7/11.7 |
| R29 | 7030003320 | S.RES ERJ3GEYJ 101 V (100 ) | T | 44.2/97.5 |
| R30 | 7030003320 | S.RES ERJ3GEYJ 101 V (100 ) | T | 29.2/97.2 |
| R31 | 7030003440 | S.RES ERJ3GEYJ 102 V (1 k) | T | 49/97.7 |
| R32 | 7030003440 | S.RES ERJ3GEYJ 102 V (1 k) | T | 33.2/97.2 |
| R34 | 7030003680 | S.RES ERJ3GEYJ 104 V (100 k) | T | 51.5/95.5 |
| R35 | 7030003680 | S.RES ERJ3GEYJ 104 V (100 k) | T | 35.7/95 |
| R40 | 7030003480 | S.RES ERJ3GEYJ 222 V (2.2 k) | B | 92.3/18.7 |
| R41 | 7030003440 | S.RES ERJ3GEYJ 102 V (1 k) | B | 99.8/20.7 |
| R42 | 7030003280 | S.RES ERJ3GEYJ 470 V (47 ) | T | 94.2/19.5 |
| R43 | 7030003730 | S.RES ERJ3GEYJ 274 V (270 k) | B | 96.2/17.2 |
| R45 | 7030003450 | S.RES ERJ3GEYJ 122 V (1.2 k) | T | 97.1/15.7 |
| R46 | 7030003440 | S.RES ERJ3GEYJ 102 V (1 k) | B | 109.3/27.8 |
| R47 | 7030003780 | S.RES ERJ3GEYJ 684 V (680 k) | B | 106/28.5 |
| R48 | 7030003200 | S.RES ERJ3GEYJ 100 V (10 ) | T | 108.4/39 |
| R49 | 7030003320 | S.RES ERJ3GEYJ 101 V (100 ) | T | 119.7/40.4 |
| R50 | 7030003520 | S.RES ERJ3GEYJ 472 V (4.7 k) | T | 114.4/34.2 |

## [MAIN-R UNIT]

| REF NO. | ORDER NO. | DESCRIPTION | M. | H/V LOCATION |
|---|---|---|---|---|
| R51 | 7030003440 | S.RES ERJ3GEYJ 102 V (1 k) | T | 48/65.5 |
| R52 | 7030003520 | S.RES ERJ3GEYJ 472 V (4.7 k) | T | 113.6/39.7 |
| R53 | 7030003550 | S.RES ERJ3GEYJ 822 V (8.2 k) | T | 116.1/42.7 |
| R55 | 7030003860 | S.RES ERJ3GE JPW V | T | 111.7/45 |
| R56 | 7030003320 | S.RES ERJ3GEYJ 101 V (100 ) | T | 34.5/57.2 |
| R57 | 7030003440 | S.RES ERJ3GEYJ 102 V (1 k) | T | 40.2/62 |
| R58 | 7030003500 | S.RES ERJ3GEYJ 332 V (3.3 k) | T | 36.3/62.1 |
| R59 | 7030003480 | S.RES ERJ3GEYJ 222 V (2.2 k) | T | 41.4/64.2 |
| R60 | 7030003320 | S.RES ERJ3GEYJ 101 V (100 ) | T | 47.9/71.6 |
| R61 | 7030003450 | S.RES ERJ3GEYJ 122 V (1.2 k) | T | 71.4/67.7 |
| R62 | 7030003440 | S.RES ERJ3GEYJ 102 V (1 k) | T | 42.5/76 |
| R63 | 7030003200 | S.RES ERJ3GEYJ 100 V (10 ) | T | 105.6/64.8 |
| R64 | 7030003400 | S.RES ERJ3GEYJ 471 V (470 ) | T | 103.6/64.1 |
| R65 | 7030003680 | S.RES ERJ3GEYJ 104 V (100 k) | T | 64.7/68.5 |
| R66 | 7030003400 | S.RES ERJ3GEYJ 471 V (470 ) | T | 103.6/65.6 |
| R67 | 7030003290 | S.RES ERJ3GEYJ 560 V (56 ) | T | 47.2/76.9 |
| R68 | 7030003400 | S.RES ERJ3GEYJ 471 V (470 ) | T | 61.5/72.4 |
| R69 | 7030003400 | S.RES ERJ3GEYJ 471 V (470 ) | T | 67.2/69.8 |
| R70 | 7030003370 | S.RES ERJ3GEYJ 271 V (270 ) | T | 99.1/65.3 |
| R71 | 7030003230 | S.RES ERJ3GEYJ 180 V (18 ) | T | 99.9/67.4 |
| R72 | 7030003370 | S.RES ERJ3GEYJ 271 V (270 ) | T | 100.6/65.3 |
| R73 | 7030003860 | S.RES ERJ3GE JPW V | T | 102.5/67.4 |
| R74 | 7030003280 | S.RES ERJ3GEYJ 470 V (47 ) | T | 116/66.5 |
| R75 | 7030003640 | S.RES ERJ3GEYJ 473 V (47 k) | T | 67.9/73.4 |
| R76 | 7030003320 | S.RES ERJ3GEYJ 101 V (100 ) | T | 65.7/74.1 |
| R77 | 7030003320 | S.RES ERJ3GEYJ 101 V (100 ) | T | 72.2/70.8 |
| R78 | 7030003560 | S.RES ERJ3GEYJ 103 V (10 k) | T | 35.7/76.2 |
| R79 | 7030003860 | S.RES ERJ3GE JPW V | T | 104.8/74.2 |
| R80 | 7030003560 | S.RES ERJ3GEYJ 103 V (10 k) | T | 35.8/73.7 |
| R81 | 7030003860 | S.RES ERJ3GE JPW V | T | 103.4/74.1 |
| R82 | 7030003560 | S.RES ERJ3GEYJ 103 V (10 k) | T | 35.8/71.3 |
| R83 | 7030003280 | S.RES ERJ3GEYJ 470 V (47 ) | T | 86.1/74.6 |
| R84 | 7030003320 | S.RES ERJ3GEYJ 101 V (100 ) | T | 35.7/70 |
| R85 | 7030003320 | S.RES ERJ3GEYJ 101 V (100 ) | T | 35.8/72.5 |
| R86 | 7030003320 | S.RES ERJ3GEYJ 101 V (100 ) | T | 35.7/75 |
| R87 | 7030003340 | S.RES ERJ3GEYJ 151 V (150 ) | T | 106.7/75 |
| R88 | 7030003860 | S.RES ERJ3GE JPW V | T | 88.4/68.8 |
| R89 | 7030003290 | S.RES ERJ3GEYJ 560 V (56 ) | B | 80/73.4 |
| R90 | 7030003280 | S.RES ERJ3GEYJ 470 V (47 ) | T | 86.6/65.1 |
| R91 | 7030003560 | S.RES ERJ3GEYJ 103 V (10 k) | T | 84.4/71.5 |
| R92 | 7030003200 | S.RES ERJ3GEYJ 100 V (10 ) | T | 114.4/73.6 |
| R93 | 7030003400 | S.RES ERJ3GEYJ 471 V (470 ) | T | 113.6/71.3 |
| R94 | 7030003400 | S.RES ERJ3GEYJ 471 V (470 ) | T | 115.1/71.3 |
| R95 | 7030000240 | S.RES MCR10EZHJ 68 (680) | B | 116.8/92.2 |
| R96 | 7030003440 | S.RES ERJ3GEYJ 102 V (1 k) | T | 9.2/27.2 |
| R97 | 7030003860 | S.RES ERJ3GE JPW V | T | 7/32.5 |
| R98 | 7030003860 | S.RES ERJ3GE JPW V | B | 110.5/91.5 |
| R99 | 7030000240 | S.RES MCR10EZHJ 68 (680) | B | 11.8/100.8 |
| R100 | 7030003560 | S.RES ERJ3GEYJ 103 V (10 k) | T | 14.1/31 |
| R101 | 7030000180 | S.RES MCR10EZHJ 22 (220) | B | 103.1/98.4 |
| R102 | 7030003400 | S.RES ERJ3GEYJ 471 V (470 ) | B | 107.2/98.4 |
| R103 | 7030003500 | S.RES ERJ3GEYJ 332 V (3.3 k) | B | 115.8/100 |
| R104 | 7030003500 | S.RES ERJ3GEYJ 332 V (3.3 k) | B | 116.6/95.8 |
| R105 | 7030003320 | S.RES ERJ3GEYJ 101 V (100 ) | T | 19/39.6 |
| R106 | 7030003860 | S.RES ERJ3GE JPW V | T | 64.7/72.7 |
| R107 | 7030003370 | S.RES ERJ3GEYJ 271 V (270 ) | T | 114.3/45.8 |
| R108 | 7030003860 | S.RES ERJ3GE JPW V | B | 18.9/124.1 |
| R115 | 7030003360 | S.RES ERJ3GEYJ 221 V (220 ) | B | 111.5/63.3 |
| | | | | |
| C1 | 4030007090 | S.CER C1608 CH 1H 470J-T | B | 44.7/106.2 |
| C2 | 4030007090 | S.CER C1608 CH 1H 470J-T | B | 43.2/106.2 |
| C3 | 4030011600 | S.CER C1608 JB 1E 104K-T | T | 19.2/84.5 |
| C4 | 4030006900 | S.CER C1608 JB 1H 103K-T | B | 27.8/108.3 |
| C5 | 4030007090 | S.CER C1608 CH 1H 470J-T | B | 41.2/106.2 |
| C7 | 4510004601 | ELE 16 ME 1000 HC+T0 | | |
| C8 | 4030006860 | S.CER C1608 JB 1H 102K-T | B | 57.9/124.2 |
| C9 | 4030006900 | S.CER C1608 JB 1H 103K-T | B | 22/112.2 |
| C10 | 4030007090 | S.CER C1608 CH 1H 470J-T | B | 20.5/106.2 |
| C11 | 4030006850 | S.CER C1608 JB 1H 471K-T | B | 56.2/124.2 |
| C12 | 4030007090 | S.CER C1608 CH 1H 470J-T | B | 42.7/112 |
| C13 | 4030007090 | S.CER C1608 CH 1H 470J-T | B | 40.7/112 |
| C14 | 4030007090 | S.CER C1608 CH 1H 470J-T | B | 20.7/112.2 |
| C15 | 4030007090 | S.CER C1608 CH 1H 470J-T | B | 18/106.2 |
| C16 | 4030007130 | S.CER C1608 CH 1H 101J-T | B | 54.5/124.2 |
| C17 | 4030007090 | S.CER C1608 CH 1H 470J-T | B | 18.7/112.2 |
| C18 | 4030007090 | S.CER C1608 CH 1H 470J-T | B | 16.7/106.2 |
| C19 | 4030007090 | S.CER C1608 CH 1H 470J-T | B | 15.7/112.2 |
| C20 | 4510008520 | S.ELE EEE1CA470SP | T | 22.2/114.2 |
| C21 | 4510008520 | S.ELE EEE1CA470SP | T | 63.5/99 |
| C22 | 4510008520 | S.ELE EEE1CA470SP | T | 78/99 |
| C23 | 4030008630 | S.CER C1608 JF 1H 104Z-T | B | 28.5/114.7 |
| C24 | 4030008630 | S.CER C1608 JF 1H 104Z-T | T | 63/106.2 |
| C25 | 4030011600 | S.CER C1608 JB 1E 104K-T | T | 76/106.5 |
| C26 | 4030011600 | S.CER C1608 JB 1E 104K-T | T | 18.7/92 |
| C27 | 4030006900 | S.CER C1608 JB 1H 103K-T | T | 76.6/29.1 |
| C28 | 4030008630 | S.CER C1608 JF 1H 104Z-T | B | 8.7/114.7 |
| C29 | 4030008630 | S.CER C1608 JF 1H 104Z-T | T | 72/106.2 |
| C30 | 4030011600 | S.CER C1608 JB 1E 104K-T | T | 5.2/106.5 |
| C31 | 4030011600 | S.CER C1608 JB 1E 104K-T | T | 18.7/95 |
| C32 | 4030011600 | S.CER C1608 JB 1E 104K-T | T | 76.1/14.6 |

M.=Mounted side (T: Mounted on the Top side, B: Mounted on the Bottom side)
S.=Surface mount

## [MAIN-R UNIT]

| REF NO. | ORDER NO. | DESCRIPTION | M. | H/V LOCATION |
|---|---|---|---|---|
| C34 | 4510008590 | S.ELE EEE1AA101SP | T | 42.5/114 |
| C35 | 4510008590 | S.ELE EEE1AA101SP | T | 70.7/99 |
| C36 | 4510008590 | S.ELE EEE1AA101SP | T | 0.2/108.2 |
| C37 | 4550006780 | S.TAN TEESVB2 0J 476M8R | T | 14.5/99 |
| C38 | 4030011810 | S.CER C1608 JB 1A 224K-T | T | 83.8/18.6 |
| C39 | 4030006900 | S.CER C1608 JB 1H 103K-T | T | 81.2/12.3 |
| C42 | 4510008520 | S.ELE EEE1CA470SP | T | 54/89.5 |
| C43 | 4510008520 | S.ELE EEE1CA470SP | T | 42/92.2 |
| C44 | 4030007170 | S.CER C1608 CH 1H 221J-T | B | 94.3/16.5 |
| C45 | 4030007170 | S.CER C1608 CH 1H 221J-T | B | 94.3/18 |
| C47 | 4030011600 | S.CER C1608 JB 1E 104K-T | T | 99/21.5 |
| C48 | 4030009530 | S.CER C1608 CH 1H 030B-T | B | 05.1/20.6 |
| C49 | 4030011600 | S.CER C1608 JB 1E 104K-T | T | 101/21.5 |
| C51 | 4550007520 | S.TAN F931A106MAABMA | T | 05.5/17.7 |
| C52 | 4030006860 | S.CER C1608 JB 1H 102K-T | B | 95.2/9.8 |
| C53 | 4030006860 | S.CER C1608 JB 1H 102K-T | B | 110/25.5 |
| C54 | 4030006980 | S.CER C1608 CH 1H 070D-T | B | 08.9/21.4 |
| C55 | 4030006860 | S.CER C1608 JB 1H 102K-T | B | 108/29.3 |
| C56 | 4030009910 | S.CER C1608 CH 1H 040B-T | B | 05.9/22.9 |
| C57 | 4030007120 | S.CER C1608 CH 1H 820J-T | T | 99/11 |
| C58 | 4030008920 | S.CER C1608 JB 1H 473K-T | B | 01.8/12.8 |
| C59 | 4030006860 | S.CER C1608 JB 1H 102K-T | B | 00.3/12.8 |
| C60 | 4030007130 | S.CER C1608 CH 1H 101J-T | T | 15.1/31.8 |
| C61 | 4550006350 | S.TAN TEESVB2 1A 226M8R | T | 45.7/60.7 |
| C62 | 4030006860 | S.CER C1608 JB 1H 102K-T | T | 19.7/38.6 |
| C63 | 4030006860 | S.CER C1608 JB 1H 102K-T | T | 06.1/39.7 |
| C64 | 4550006350 | S.TAN TEESVB2 1A 226M8R | T | 49.2/60.7 |
| C65 | 4030006860 | S.CER C1608 JB 1H 102K-T | T | 13.6/43.1 |
| C66 | 4030006900 | S.CER C1608 JB 1H 103K-T | T | 04.6/39.7 |
| C67 | 4030011600 | S.CER C1608 JB 1E 104K-T | T | 52.7/64.7 |
| C68 | 4030006860 | S.CER C1608 JB 1H 102K-T | T | 10.6/39.7 |
| C69 | 4550006350 | S.TAN TEESVB2 1A 226M8R | T | 52.7/60.7 |
| C70 | 4030006900 | S.CER C1608 JB 1H 103K-T | T | 12.1/39.7 |
| C71 | 4030009530 | S.CER C1608 CH 1H 030B-T | T | 14.3/47.3 |
| C72 | 4030006900 | S.CER C1608 JB 1H 103K-T | T | 32.3/59.1 |
| C74 | 4550002890 | S.TAN TEESVA 1A 225M8R | T | 39.5/65.5 |
| C75 | 4030007060 | S.CER C1608 CH 1H 270J-T | T | 09.8/53.5 |
| C77 | 4030006860 | S.CER C1608 JB 1H 102K-T | B | 57.2/61.9 |
| C78 | 4030009350 | S.CER C1608 CH 1H 3R5B-T | T | 66.3/61.3 |
| C79 | 4550000550 | S.TAN TEESVA 1V 224M8R | T | 37.3/65.5 |
| C80 | 4030007010 | S.CER C1608 CH 1H 100D-T | T | 66.3/62.6 |
| C81 | 4610001590 | S.TRI TZC3R100A110R00 | T | 72/63.2 |
| C82 | 4550003220 | S.TAN TEESVA 1E 105M8R | T | 59/61.1 |
| C83 | 4550005980 | S.TAN TEESVA 1A 475M8R | T | 35/65.5 |
| C84 | 4030006980 | S.CER C1608 CH 1H 070D-T | B | 114.8/64 |
| C85 | 4030006860 | S.CER C1608 JB 1H 102K-T | T | 58.9/69 |
| C87 | 4030009910 | S.CER C1608 CH 1H 040B-T | T | 69.1/65.7 |
| C88 | 4030007040 | S.CER C1608 CH 1H 180J-T | T | 70.2/67.7 |
| C89 | 4030006900 | S.CER C1608 JB 1H 103K-T | T | 41.4/66.8 |
| C90 | 4030011600 | S.CER C1608 JB 1E 104K-T | T | 57.7/69 |
| C91 | 4030006860 | S.CER C1608 JB 1H 102K-T | B | 06.4/63.3 |
| C92 | 4030006900 | S.CER C1608 JB 1H 103K-T | T | 50/72.4 |
| C93 | 4030011600 | S.CER C1608 JB 1E 104K-T | T | 42.5/77.5 |
| C94 | 4030009500 | S.CER C1608 CH 1H 0R5B-T | T | 67.3/68.5 |
| C95 | 4030006900 | S.CER C1608 JB 1H 103K-T | T | 50/71 |
| C96 | 4030006860 | S.CER C1608 JB 1H 102K-T | T | 59.5/72.9 |
| C97 | 4030009920 | S.CER C1608 CH 1H 050B-T | T | 47.8/68.8 |
| C98 | 4030006860 | S.CER C1608 JB 1H 102K-T | T | 45.8/76.9 |
| C99 | 4030006860 | S.CER C1608 JB 1H 102K-T | T | 107/64.8 |
| C101 | 4030006860 | S.CER C1608 JB 1H 102K-T | T | 45.7/67.8 |
| C102 | 4030006860 | S.CER C1608 JB 1H 102K-T | T | 14.1/62.8 |
| C103 | 4030006860 | S.CER C1608 JB 1H 102K-T | T | 116.7/69 |
| C104 | 4030006860 | S.CER C1608 JB 1H 102K-T | T | 59.5/71.7 |
| C105 | 4030007050 | S.CER C1608 CH 1H 220J-T | T | 62.8/72 |
| C106 | 4030006900 | S.CER C1608 JB 1H 103K-T | T | 116/65.1 |
| C107 | 4030006860 | S.CER C1608 JB 1H 102K-T | T | 63.5/75 |
| C108 | 4030006980 | S.CER C1608 CH 1H 070D-T | T | 97.6/65.3 |
| C109 | 4030009910 | S.CER C1608 CH 1H 040B-T | T | 96.8/68.6 |
| C110 | 4030007040 | S.CER C1608 CH 1H 180J-T | T | 96.1/65.3 |
| C111 | 4030009910 | S.CER C1608 CH 1H 040B-T | T | 93.8/68.6 |
| C112 | 4030006860 | S.CER C1608 JB 1H 102K-T | T | 67.2/75.5 |
| C113 | 4030007010 | S.CER C1608 CH 1H 100D-T | T | 72.2/74.7 |
| C114 | 4030006980 | S.CER C1608 CH 1H 070D-T | T | 93/65.2 |
| C115 | 4030006860 | S.CER C1608 JB 1H 102K-T | T | 70.8/70.8 |
| C116 | 4030006900 | S.CER C1608 JB 1H 103K-T | T | 06.7/76.4 |
| C117 | 4030007070 | S.CER C1608 CH 1H 330J-T | T | 91/68.8 |
| C118 | 4030006860 | S.CER C1608 JB 1H 102K-T | T | 88.1/65.1 |
| C119 | 4030006900 | S.CER C1608 JB 1H 103K-T | T | 06.8/78.1 |
| C120 | 4030006860 | S.CER C1608 JB 1H 102K-T | T | 13.6/75.8 |
| C121 | 4030006980 | S.CER C1608 CH 1H 070D-T | T | 48.7/77 |
| C122 | 4030006950 | S.CER C1608 CH 1H 040C-T | T | 49.5/80.2 |
| C123 | 4030007040 | S.CER C1608 CH 1H 180J-T | T | 51.8/77 |
| C124 | 4030006860 | S.CER C1608 JB 1H 102K-T | T | 88.4/73.8 |
| C125 | 4030006950 | S.CER C1608 CH 1H 040C-T | T | 52.5/80.2 |
| C126 | 4030006860 | S.CER C1608 JB 1H 102K-T | B | 14.2/73.5 |
| C127 | 4030006980 | S.CER C1608 CH 1H 070D-T | T | 53.3/77 |
| C128 | 4030007050 | S.CER C1608 CH 1H 220J-T | T | 82.6/65.8 |
| C129 | 4030007040 | S.CER C1608 CH 1H 180J-T | B | 11.2/73.5 |
| C130 | 4030007020 | S.CER C1608 CH 1H 120J-T | B | 110.2/78 |
| C131 | 4030006860 | S.CER C1608 JB 1H 102K-T | T | 8.5/29.5 |
| C132 | 4030006860 | S.CER C1608 JB 1H 102K-T | T | 10.7/27.2 |

## [MAIN-R UNIT]

| REF NO. | ORDER NO. | DESCRIPTION | M. | H/V LOCATION |
|---|---|---|---|---|
| C133 | 4030006990 | S.CER C1608 CH 1H 080D-T | B | 09.6/85.9 |
| C135 | 4030007090 | S.CER C1608 CH 1H 470J-T | B | 12.7/90.7 |
| C136 | 4030007040 | S.CER C1608 CH 1H 180J-T | B | 09.5/88.5 |
| C137 | 4030007010 | S.CER C1608 CH 1H 100D-T | T | 12.6/31 |
| C138 | 4030006860 | S.CER C1608 JB 1H 102K-T | T | 7.7/27.2 |
| C139 | 4030006860 | S.CER C1608 JB 1H 102K-T | B | 16.6/94.3 |
| C140 | 4030006860 | S.CER C1608 JB 1H 102K-T | B | 3.9/100.8 |
| C141 | 4030006860 | S.CER C1608 JB 1H 102K-T | T | 22.4/35 |
| C142 | 4030006860 | S.CER C1608 JB 1H 102K-T | B | 2.1/100.8 |
| C143 | 4030006860 | S.CER C1608 JB 1H 102K-T | B | 9.8/101.5 |
| C144 | 4030007130 | S.CER C1608 CH 1H 101J-T | B | 16.6/97.8 |
| C145 | 4030006860 | S.CER C1608 JB 1H 102K-T | B | 0.6/100.8 |
| C146 | 4030006860 | S.CER C1608 JB 1H 102K-T | B | 8.3/101.5 |
| C147 | 4030006990 | S.CER C1608 CH 1H 080D-T | B | 19.6/99.3 |
| C151 | 4030006860 | S.CER C1608 JB 1H 102K-T | T | 19/41.1 |
| C159 | 4030007060 | S.CER C1608 CH 1H 270J-T | B | 18.9/116.5 |
| C160 | 4030007060 | S.CER C1608 CH 1H 270J-T | B | 118.9/119.5 |
| C163 | 4030007030 | S.CER C1608 CH 1H 150J-T | B | 114.9/114 |
| C164 | 4030007020 | S.CER C1608 CH 1H 120J-T | B | 114.9/111.3 |
| C165 | 4030007020 | S.CER C1608 CH 1H 120J-T | B | 114.9/103.7 |
| C166 | 4030006860 | S.CER C1608 JB 1H 102K-T | T | 82.7/70.4 |
| C167 | 4030007100 | S.CER C1608 CH 1H 560J-T | B | 108.7/23.8 |
| C168 | 4030006850 | S.CER C1608 JB 1H 471K-T | T | 78.3/20.1 |
| C169 | 4030006860 | S.CER C1608 JB 1H 102K-T | T | 112.9/31 |
| C170 | 4030006860 | S.CER C1608 JB 1H 102K-T | T | 15.6/32.5 |
| J1 | 6510021720 | S.CNR 30FLT-SM1-TB | T | 23/107.2 |
| J2 | 6510021720 | S.CNR 30FLT-SM1-TB | T | 45/107.2 |
| J3 | 6510018450 | CNR TMP-S01X-B1 | | |
| W1 | 8900004880 | CBL OPC-465 | | |
| EP2 | 6910013310 | S.BEA MMZ1608D121B | T | 52.7/66.2 |

## [MAIN-T UNIT]

| REF NO. | ORDER NO. | DESCRIPTION | M. | H/V LOCATION |
|---|---|---|---|---|
| IC2 | 1180001071 | S.IC TA7805F (TE16L,Q) | T | 7.7/113.2 |
| IC3 | 1180001071 | S.IC TA7805F (TE16L,Q) | T | 77.7/106 |
| IC4 | 1180002020 | S.REG BA033FP-E2 | T | 15.7/95.5 |
| IC5 | 1110005410 | S.IC RF2485 <I.A> | T | 68.2/25.2 |
| IC6 | 1110005600 | S.IC PC2758TB-E3 | T | 66/42.1 |
| IC7 | 1110004050 | S.IC NJM3404AV-TE1-#FMZB | B | 82.5/26.3 |
| IC8 | 1130006551 | S.IC TC7S08FU (TE85R,F) | B | 25.3/62 |
| IC9 | 1110006670 | S.IC NJM2730F-TE1 | B | 43/23.7 |
| IC10 | 1140005991 | S.IC MB15A02PFV1-G-BND-ERE1 | B | 35.2/28.7 |
| IC11 | 1110006670 | S.IC NJM2730F-TE1 | B | 43.5/46.4 |
| IC12 | 1140005991 | S.IC MB15A02PFV1-G-BND-ERE1 | B | 34.7/52.5 |
| IC13 | 1110002751 | S.IC TA75S01F (TE85R,F) | T | 105.5/78 |
| IC14 | 1110002751 | S.IC TA75S01F (TE85R,F) | B | 87.7/26.4 |
| Q1 | 1520000201 | S.TR 2SB798-T2-AZ DK | T | 8/126.5 |
| Q2 | 1590000430 | S.TR DTC144EUA T106 | T | 61.2/14 |
| Q3 | 1510000581 | S.TR 2SA1362-GR (TE85R,F) | T | 65.9/15.7 |
| Q4 | 1530002280 | S.TR 2SC4081 T106 S | T | 7.2/120.7 |
| Q5 | 1510000581 | S.TR 2SA1362-GR (TE85R,F) | T | 45/93.6 |
| Q6 | 1590000430 | S.TR DTC144EUA T106 | T | 40.2/92 |
| Q7 | 1590000430 | S.TR DTC144EUA T106 | T | 50.8/91.9 |
| Q8 | 1510000581 | S.TR 2SA1362-GR (TE85R,F) | T | 55.3/93.5 |
| Q9 | 1530003231 | S.TR 2SC5085-Y (TE85R,F) | T | 65.5/33.6 |
| Q10 | 1530002691 | S.TR 2SC4116-GR (TE85R,F) | T | 30.7/16.2 |
| Q12 | 1560000491 | S.FET 2SK508-T2B-A K52 | T | 39.3/26.8 |
| Q13 | 1530002561 | S.TR 2SC4403-3-TL-E | B | 74.8/73.8 |
| Q14 | 1530003231 | S.TR 2SC5085-Y (TE85R,F) | T | 53.8/26 |
| Q15 | 1530003231 | S.TR 2SC5085-Y (TE85R,F) | T | 32.5/31.7 |
| Q16 | 1530003231 | S.TR 2SC5085-Y (TE85R,F) | T | 40.8/34.7 |
| Q18 | 1530003431 | S.TR 2SC5226-4-TL-E | B | 88.3/65.9 |
| Q19 | 1530002561 | S.TR 2SC4403-3-TL-E | T | 51.8/50.4 |
| Q20 | 1530002691 | S.TR 2SC4116-GR (TE85R,F) | T | 20.4/49.7 |
| Q21 | 1510000581 | S.TR 2SA1362-GR (TE85R,F) | T | 92.7/79.5 |
| Q22 | 1590000680 | S.TR DTC114EUA T106 | T | 90.2/74.7 |
| Q23 | 1560000491 | S.FET 2SK508-T2B-A K52 | T | 39.8/51.9 |
| Q24 | 1560001161 | S.FET 2SK3475 (TE12L,F) | T | 105.7/61.4 |
| Q25 | 1530002561 | S.TR 2SC4403-3-TL-E | T | 32.3/55.6 |
| Q26 | 1590000680 | S.TR DTC114EUA T106 | T | 109/72.5 |
| Q27 | 1530002561 | S.TR 2SC4403-3-TL-E | T | 40.5/57.7 |
| Q28 | 1560000531 | S.FET 2SK880-GR (TE85R,F) | T | 7.6/27.2 |
| D1 | 1790000700 | DIO DSA3A1 | | |
| D2 | 1730002300 | S.ZEN MA8082-M (TX) | T | 4.3/125.4 |

M.=Mounted side (T: Mounted on the Top side, B: Mounted on the Bottom side)
S.=Surface mount

## [MAIN-T UNIT]

| REF NO. | ORDER NO. | DESCRIPTION | M. | H/V LOCATION |
|---|---|---|---|---|
| D3 | 1720000781 | S.VCP HVU350BTRF-E | T | 34.2/21 |
| D4 | 1720000811 | S.VCP HVC358BTRF-E | T | 39.7/48.5 |
| D5 | 1790000950 | S.ZEN MA8056-M (TX) | T | 97.5/64.2 |
| D6 | 1790000980 | S.DIO MA742 (TX) | T | 100.6/97.4 |
| D8 | 1790000950 | S.ZEN MA8056-M (TX) | T | 113.7/72.4 |
| D9 | 1790000980 | S.DIO MA742 (TX) | T | 96.3/100.4 |
| FI1 | 2040001920 | S.SAW SAFCH146MAL0N00R11 | B | 60.7/70.7 |
| L1 | 6200005701 | S.COL ELJRE 22NGFA | T | 60.8/25.9 |
| L2 | 6200009351 | S.COL ELJRE R22GFA | B | 66.7/22.7 |
| L3 | 6200006981 | S.COL ELJRE R10GFA | T | 62.7/40.4 |
| L5 | 6200006671 | S.COL ELJRE 68NGFA | T | 63.5/46 |
| L7 | 6200005691 | S.COL ELJRE 18NGFA | T | 73/34 |
| L8 | 6200005741 | S.COL ELJRE 47NGFA | T | 68.8/40.3 |
| L9 | 6200005731 | S.COL ELJRE 39NGFA | T | 72/44.8 |
| L10 | 6200006991 | S.COL ELJRE 56NGFA | T | 67.5/34.7 |
| L11 | 6200005731 | S.COL ELJRE 39NGFA | T | 71.1/48.9 |
| L12 | 6200005721 | S.COL ELJRE 33NGFA | T | 67.9/50.4 |
| L13 | 6200005721 | S.COL ELJRE 33NGFA | T | 63.5/49.6 |
| L14 | 6200005721 | S.COL ELJRE 33NGFA | T | 63.5/51.3 |
| L15 | 6200005661 | S.COL ELJRE 10NGFA | T | 63.2/36.3 |
| L16 | 6200009351 | S.COL ELJRE R22GFA | T | 39/20.6 |
| L17 | 6200010730 | S.COL C2520C-68NG-A | T | 34/24.3 |
| L18 | 6200007770 | S.COL LQW2BHNR10J03L | B | 60.7/64.1 |
| L19 | 6200007120 | S.COL ELJND 1R0J | T | 31/27.8 |
| L20 | 6200007120 | S.COL ELJND 1R0J | T | 39.3/30.9 |
| L21 | 6200007770 | S.COL LQW2BHNR10J03L | B | 63.7/74.7 |
| L22 | 6200005741 | S.COL ELJRE 47NGFA | B | 71.6/73.2 |
| L23 | 6200006671 | S.COL ELJRE 68NGFA | B | 78.7/72 |
| L24 | 6200005701 | S.COL ELJRE 22NGFA | T | 52.3/29.8 |
| L25 | 6200006991 | S.COL ELJRE 56NGFA | T | 50/29.2 |
| L26 | 6200005661 | S.COL ELJRE 10NGFA | T | 35.2/33.5 |
| L27 | 6200005721 | S.COL ELJRE 33NGFA | B | 39.5/34.9 |
| L28 | 6200005721 | S.COL ELJRE 33NGFA | B | 42.3/34.8 |
| L29 | 6200006671 | S.COL ELJRE 68NGFA | B | 85.4/69.8 |
| L30 | 6200005691 | S.COL ELJRE 18NGFA | B | 86.9/63.3 |
| L31 | 6200005691 | S.COL ELJRE 18NGFA | T | 50.7/43 |
| L32 | 6200005691 | S.COL ELJRE 18NGFA | T | 50.7/46.1 |
| L33 | 6200005741 | S.COL ELJRE 47NGFA | T | 53.8/51.2 |
| L34 | 6200009351 | S.COL ELJRE R22GFA | T | 39.7/44.5 |
| L35 | 6200005701 | S.COL ELJRE 22NGFA | T | 98.8/56.6 |
| L36 | 6200005701 | S.COL ELJRE 22NGFA | T | 101/57.4 |
| L37 | 6200004150 | S.COL MLF1608D 47NM-T | T | 51/54.2 |
| L38 | 6200009380 | S.COL C6328A-43NG-A | T | 34.3/48.1 |
| L39 | 6200007350 | S.COL ELJND R39J | T | 30.5/48.6 |
| L40 | 6200005711 | S.COL ELJRE 27NGFA | T | 108.9/58.3 |
| L41 | 6200007820 | S.COL ELJND R33J | T | 43.2/53.8 |
| L42 | 6200006671 | S.COL ELJRE 68NGFA | T | 30.2/56 |
| L43 | 6200005661 | S.COL ELJRE 10NGFA | T | 36.3/56.7 |
| L44 | 6200011910 | S.COL BLM31PG330SN1L | T | 94.8/91.2 |
| L45 | 6200011910 | S.COL BLM31PG330SN1L | T | 103.1/91.2 |
| L46 | 6200011910 | S.COL BLM31PG330SN1L | T | 111.8/91.2 |
| L47 | 6200010170 | S.COL AS080447-33N | T | 112.9/99.3 |
| L48 | 6200005741 | S.COL ELJRE 47NGFA | T | 39.2/60 |
| L49 | 6200005691 | S.COL ELJRE 18NGFA | B | 39.5/59 |
| L50 | 6200005691 | S.COL ELJRE 18NGFA | B | 42.2/59 |
| L51 | 6200010060 | S.COL AS080647-56N | T | 105.4/102.9 |
| L52 | 6200010050 | S.COL AS080547-47N | T | 116.8/112.1 |
| L53 | 6200010050 | S.COL AS080547-47N | T | 117.1/122.7 |
| L54 | 6200009380 | S.COL C6328A-43NG-A | B | 120.7/127.2 |
| R1 | 7540000280 | S.ASB ERZVF2M220 | B | 65.9/124.8 |
| R2 | 7030003680 | S.RES ERJ3GEYJ 104 V (100 k) | T | 8/123 |
| R3 | 7030003320 | S.RES ERJ3GEYJ 101 V (100 ) | B | 15.5/106.3 |
| R4 | 7030003320 | S.RES ERJ3GEYJ 101 V (100 ) | B | 40.2/105.6 |
| R5 | 7030003320 | S.RES ERJ3GEYJ 101 V (100 ) | B | 37.5/105.6 |
| R6 | 7030003440 | S.RES ERJ3GEYJ 102 V (1 k) | T | 63.5/14 |
| R7 | 7030003680 | S.RES ERJ3GEYJ 104 V (100 k) | T | 66/13.2 |
| R8 | 7030003530 | S.RES ERJ3GEYJ 562 V (5.6 k) | T | 89/111.9 |
| R9 | 7030003860 | S.RES ERJ3GE JPW V | T | 88.2/114 |
| R10 | 7510001670 | S.TMR NTCG16 4BH 103KT | T | 89/110.3 |
| R11 | 7030003450 | S.RES ERJ3GEYJ 122 V (1.2 k) | T | 91.8/112 |
| R12 | 7030003560 | S.RES ERJ3GEYJ 103 V (10 k) | T | 90.8/26.2 |
| R13 | 7030003560 | S.RES ERJ3GEYJ 103 V (10 k) | T | 88.8/23.3 |
| R14 | 7030003320 | S.RES ERJ3GEYJ 101 V (100 ) | T | 90.8/28.9 |
| R16 | 7030003440 | S.RES ERJ3GEYJ 102 V (1 k) | T | 9.2/120.7 |
| R17 | 7030003320 | S.RES ERJ3GEYJ 101 V (100 ) | T | 7.3/118.5 |
| R18 | 7030003860 | S.RES ERJ3GE JPW V | T | 22.7/91 |
| R19 | 7030003230 | S.RES ERJ3GEYJ 180 V (18 ) | T | 60.8/23 |
| R20 | 7030003370 | S.RES ERJ3GEYJ 271 V (270 ) | T | 62.7/22.2 |
| R21 | 7030003370 | S.RES ERJ3GEYJ 271 V (270 ) | T | 62.7/23.8 |
| R22 | 7030003320 | S.RES ERJ3GEYJ 101 V (100 ) | B | 78.2/26.9 |
| R23 | 7030003320 | S.RES ERJ3GEYJ 101 V (100 ) | B | 78.2/25.7 |
| R24 | 7030003550 | S.RES ERJ3GEYJ 822 V (8.2 k) | T | 81.8/30.6 |
| R25 | 7030003860 | S.RES ERJ3GE JPW V | B | 86/29.2 |
| R26 | 7030003590 | S.RES ERJ3GEYJ 183 V (18 k) | T | 81.8/28.2 |
| R27 | 7030003320 | S.RES ERJ3GEYJ 101 V (100 ) | B | 82.2/21.5 |

## [MAIN-T UNIT]

| REF NO. | ORDER NO. | DESCRIPTION | M. | H/V LOCATION |
|---|---|---|---|---|
| R28 | 7030003550 | S.RES ERJ3GEYJ 822 V (8.2 k) | T | 84/25 |
| R29 | 7030003590 | S.RES ERJ3GEYJ 183 V (18 k) | T | 81.8/22.9 |
| R30 | 7030003320 | S.RES ERJ3GEYJ 101 V (100 ) | T | 38/92 |
| R31 | 7030003320 | S.RES ERJ3GEYJ 101 V (100 ) | T | 48.8/92 |
| R32 | 7030003320 | S.RES ERJ3GEYJ 101 V (100 ) | B | 16.7/106.2 |
| R33 | 7030003300 | S.RES ERJ3GEYJ 680 V (68 ) | T | 60.8/28.7 |
| R34 | 7030003320 | S.RES ERJ3GEYJ 101 V (100 ) | T | 62.8/27.9 |
| R35 | 7030003320 | S.RES ERJ3GEYJ 101 V (100 ) | T | 62.7/29.5 |
| R36 | 7030003230 | S.RES ERJ3GEYJ 180 V (18 ) | T | 68/30.7 |
| R37 | 7030003370 | S.RES ERJ3GEYJ 271 V (270 ) | T | 65/30.7 |
| R38 | 7030003370 | S.RES ERJ3GEYJ 271 V (270 ) | T | 74.7/30.7 |
| R39 | 7030003320 | S.RES ERJ3GEYJ 101 V (100 ) | B | 79/30 |
| R40 | 7030003440 | S.RES ERJ3GEYJ 102 V (1 k) | B | 70/27 |
| R41 | 7030003440 | S.RES ERJ3GEYJ 102 V (1 k) | B | 71.2/27 |
| R42 | 7030003440 | S.RES ERJ3GEYJ 102 V (1 k) | B | 75.7/24.5 |
| R43 | 7030003440 | S.RES ERJ3GEYJ 102 V (1 k) | B | 74.3/24.5 |
| R44 | 7030003320 | S.RES ERJ3GEYJ 101 V (100 ) | B | 78.2/24.5 |
| R45 | 7030003440 | S.RES ERJ3GEYJ 102 V (1 k) | T | 42.5/91.7 |
| R46 | 7030003440 | S.RES ERJ3GEYJ 102 V (1 k) | T | 52.8/91.7 |
| R47 | 7030003680 | S.RES ERJ3GEYJ 104 V (100 k) | T | 45/91 |
| R48 | 7030003680 | S.RES ERJ3GEYJ 104 V (100 k) | T | 55.3/91 |
| R49 | 7030003320 | S.RES ERJ3GEYJ 101 V (100 ) | T | 68.7/44 |
| R50 | 7030003290 | S.RES ERJ3GEYJ 560 V (56 ) | T | 72.2/36.2 |
| R51 | 7030003320 | S.RES ERJ3GEYJ 101 V (100 ) | T | 69/34.7 |
| R52 | 7030003320 | S.RES ERJ3GEYJ 101 V (100 ) | T | 62.4/34.1 |
| R53 | 7030003500 | S.RES ERJ3GEYJ 332 V (3.3 k) | T | 28.5/16 |
| R55 | 7030003320 | S.RES ERJ3GEYJ 101 V (100 ) | B | 44.7/20.5 |
| R56 | 7030003230 | S.RES ERJ3GEYJ 180 V (18 ) | B | 64.1/59.3 |
| R57 | 7030003370 | S.RES ERJ3GEYJ 271 V (270 ) | B | 61.9/58.6 |
| R58 | 7030003520 | S.RES ERJ3GEYJ 472 V (4.7 k) | T | 65.5/37 |
| R59 | 7030003560 | S.RES ERJ3GEYJ 103 V (10 k) | T | 65.5/35.5 |
| R60 | 7030003320 | S.RES ERJ3GEYJ 101 V (100 ) | B | 31.7/29.2 |
| R61 | 7030003520 | S.RES ERJ3GEYJ 472 V (4.7 k) | B | 38.7/30.2 |
| R62 | 7030003440 | S.RES ERJ3GEYJ 102 V (1 k) | B | 40.2/30.2 |
| R63 | 7030003440 | S.RES ERJ3GEYJ 102 V (1 k) | B | 34.5/34.2 |
| R64 | 7030003370 | S.RES ERJ3GEYJ 271 V (270 ) | B | 61.9/60.1 |
| R65 | 7030003560 | S.RES ERJ3GEYJ 103 V (10 k) | B | 60/66.7 |
| R66 | 7030003320 | S.RES ERJ3GEYJ 101 V (100 ) | T | 52.3/28.5 |
| R67 | 7030003290 | S.RES ERJ3GEYJ 560 V (56 ) | B | 56/37.1 |
| R68 | 7030003320 | S.RES ERJ3GEYJ 101 V (100 ) | T | 53/23 |
| R69 | 7030003860 | S.RES ERJ3GE JPW V | T | 31.5/23.7 |
| R70 | 7030003640 | S.RES ERJ3GEYJ 473 V (47 k) | T | 32.2/29.7 |
| R71 | 7030003320 | S.RES ERJ3GEYJ 101 V (100 ) | T | 41.3/28.9 |
| R72 | 7030003290 | S.RES ERJ3GEYJ 560 V (56 ) | B | 35.9/34.1 |
| R73 | 7030003560 | S.RES ERJ3GEYJ 103 V (10 k) | B | 39.5/24 |
| R74 | 7030003560 | S.RES ERJ3GEYJ 103 V (10 k) | B | 39.5/22.8 |
| R75 | 7030003560 | S.RES ERJ3GEYJ 103 V (10 k) | B | 33/24 |
| R76 | 7030003320 | S.RES ERJ3GEYJ 101 V (100 ) | B | 35/23.2 |
| R77 | 7030003320 | S.RES ERJ3GEYJ 101 V (100 ) | B | 36.2/23.2 |
| R78 | 7030003320 | S.RES ERJ3GEYJ 101 V (100 ) | B | 37.5/23.2 |
| R79 | 7030003560 | S.RES ERJ3GEYJ 103 V (10 k) | B | 60/74.2 |
| R80 | 7030003550 | S.RES ERJ3GEYJ 822 V (8.2 k) | B | 74.6/71.2 |
| R81 | 7030003540 | S.RES ERJ3GEYJ 682 V (6.8 k) | B | 72.4/75.4 |
| R82 | 7030003320 | S.RES ERJ3GEYJ 101 V (100 ) | B | 76.1/69.7 |
| R83 | 7030003320 | S.RES ERJ3GEYJ 101 V (100 ) | B | 75.4/76.7 |
| R84 | 7030003400 | S.RES ERJ3GEYJ 471 V (470 ) | T | 51.6/31.9 |
| R85 | 7030003560 | S.RES ERJ3GEYJ 103 V (10 k) | T | 51.6/25.9 |
| R86 | 7030003200 | S.RES ERJ3GEYJ 100 V (10 ) | T | 50/25.9 |
| R87 | 7030003520 | S.RES ERJ3GEYJ 472 V (4.7 k) | T | 51.6/23 |
| R88 | 7030003360 | S.RES ERJ3GEYJ 221 V (220 ) | T | 30.7/35 |
| R89 | 7030003320 | S.RES ERJ3GEYJ 101 V (100 ) | T | 30/32.7 |
| R90 | 7030003620 | S.RES ERJ3GEYJ 333 V (33 k) | T | 38.7/34.2 |
| R92 | 7030003320 | S.RES ERJ3GEYJ 101 V (100 ) | T | 35.5/36.5 |
| R93 | 7030003320 | S.RES ERJ3GEYJ 101 V (100 ) | T | 38.6/36.5 |
| R94 | 7030003320 | S.RES ERJ3GEYJ 101 V (100 ) | T | 44.2/33.5 |
| R95 | 7030003360 | S.RES ERJ3GEYJ 221 V (220 ) | B | 77.2/72 |
| R96 | 7030003280 | S.RES ERJ3GEYJ 470 V (47 ) | B | 82.4/74.3 |
| R97 | 7030003330 | S.RES ERJ3GEYJ 121 V (120 ) | B | 81.7/76.5 |
| R98 | 7030003330 | S.RES ERJ3GEYJ 121 V (120 ) | B | 83.2/76.5 |
| R99 | 7030003220 | S.RES ERJ3GEYJ 150 V (15 ) | B | 87.6/69 |
| R100 | 7030003300 | S.RES ERJ3GEYJ 680 V (68 ) | T | 54.8/42.2 |
| R101 | 7030003320 | S.RES ERJ3GEYJ 101 V (100 ) | T | 55.7/39.9 |
| R102 | 7030003320 | S.RES ERJ3GEYJ 101 V (100 ) | T | 53.8/39.9 |
| R103 | 7030003290 | S.RES ERJ3GEYJ 560 V (56 ) | B | 45.9/37.3 |
| R104 | 7030003500 | S.RES ERJ3GEYJ 332 V (3.3 k) | T | 18.5/49.5 |
| R106 | 7030003520 | S.RES ERJ3GEYJ 472 V (4.7 k) | B | 86.1/66 |
| R107 | 7030003530 | S.RES ERJ3GEYJ 562 V (5.6 k) | B | 83.9/66.8 |
| R108 | 7030000320 | S.RES MCR10EZHJ 330 (331) | B | 86.1/57.1 |
| R109 | 7030003270 | S.RES ERJ3GEYJ 390 V (39 ) | B | 89.9/58.8 |
| R110 | 7030003340 | S.RES ERJ3GEYJ 151 V (150 ) | B | 89.1/56.5 |
| R111 | 7030003320 | S.RES ERJ3GEYJ 101 V (100 ) | T | 49/48 |
| R112 | 7030003320 | S.RES ERJ3GEYJ 101 V (100 ) | B | 46.5/47.7 |
| R113 | 7030003440 | S.RES ERJ3GEYJ 102 V (1 k) | B | 41.8/50.5 |
| R114 | 7030003340 | S.RES ERJ3GEYJ 151 V (150 ) | B | 90.6/56.5 |
| R115 | 7030003680 | S.RES ERJ3GEYJ 104 V (100 k) | T | 92.8/76.9 |
| R116 | 7030003440 | S.RES ERJ3GEYJ 102 V (1 k) | T | 90.2/77.7 |
| R117 | 7030007860 | S.RES ERJ3GEYJ 8R2V (8.2 ) | T | 102.5/58.9 |
| R118 | 7030003530 | S.RES ERJ3GEYJ 562 V (5.6 k) | T | 101/60.4 |
| R119 | 7030003530 | S.RES ERJ3GEYJ 562 V (5.6 k) | T | 101/63.8 |
| R120 | 7030003320 | S.RES ERJ3GEYJ 101 V (100 ) | T | 54.6/54.7 |
| R121 | 7030003600 | S.RES ERJ3GEYJ 223 V (22 k) | T | 51.7/52.3 |

M.=Mounted side (T: Mounted on the Top side, B: Mounted on the Bottom side)
S.=Surface mount

## [MAIN-T UNIT]

| REF NO. | ORDER NO. | DESCRIPTION | M. | H/V LOCATION |
|---|---|---|---|---|
| R122 | 7030003530 | S.RES ERJ3GEYJ 562 V (5.6 k) | T | 49/52.3 |
| R123 | 7030003240 | S.RES ERJ3GEYJ 220 V (22 ) | T | 29.4/51 |
| R124 | 7030003320 | S.RES ERJ3GEYJ 101 V (100 ) | B | 31.2/52.8 |
| R125 | 7030003440 | S.RES ERJ3GEYJ 102 V (1 k) | B | 41.8/53.2 |
| R126 | 7030003630 | S.RES ERJ3GEYJ 393 V (39 k) | B | 40.3/53.2 |
| R127 | 7030003440 | S.RES ERJ3GEYJ 102 V (1 k) | B | 33.7/58.7 |
| R128 | 7030003290 | S.RES ERJ3GEYJ 560 V (56 ) | B | 35.7/58.2 |
| R129 | 7030000180 | S.RES MCR10EZHJ 22 (220) | T | 111.5/52.2 |
| R130 | 7030003530 | S.RES ERJ3GEYJ 562 V (5.6 k) | T | 99.5/66.7 |
| R131 | 7030000180 | S.RES MCR10EZHJ 22 (220) | T | 113.7/52.2 |
| R132 | 7030003350 | S.RES ERJ3GEYJ 181 V (180 ) | T | 110.5/58.3 |
| R133 | 7030003500 | S.RES ERJ3GEYJ 332 V (3.3 k) | T | 99.5/69.7 |
| R134 | 7030000170 | S.RES MCR10EZHJ 18 (180) | T | 114.8/60.3 |
| R135 | 7030000310 | S.RES MCR10EZHJ 270 (271) | T | 113.6/57.4 |
| R138 | 7030003680 | S.RES ERJ3GEYJ 104 V (100 k) | T | 32.2/53.6 |
| R139 | 7030003380 | S.RES ERJ3GEYJ 331 V (330 ) | T | 28.8/56.1 |
| R140 | 7030003330 | S.RES ERJ3GEYJ 121 V (120 ) | T | 43.3/51.8 |
| R141 | 7030003560 | S.RES ERJ3GEYJ 103 V (10 k) | B | 39.3/47.5 |
| R142 | 7030003560 | S.RES ERJ3GEYJ 103 V (10 k) | B | 39.3/46 |
| R143 | 7030003560 | S.RES ERJ3GEYJ 103 V (10 k) | B | 33.5/46.7 |
| R144 | 7030003320 | S.RES ERJ3GEYJ 101 V (100 ) | B | 34.7/46.7 |
| R145 | 7030003320 | S.RES ERJ3GEYJ 101 V (100 ) | B | 36/46.7 |
| R146 | 7030003320 | S.RES ERJ3GEYJ 101 V (100 ) | B | 37.2/46.7 |
| R147 | 7030000310 | S.RES MCR10EZHJ 270 (271) | T | 116.1/57.4 |
| R149 | 7030003400 | S.RES ERJ3GEYJ 471 V (470 ) | T | 118.5/76 |
| R150 | 7030003320 | S.RES ERJ3GEYJ 101 V (100 ) | T | 112.5/76.7 |
| R151 | 7030003560 | S.RES ERJ3GEYJ 103 V (10 k) | T | 120/76 |
| R152 | 7030003720 | S.RES ERJ3GEYJ 224 V (220 k) | T | 105.5/74 |
| R153 | 7030003620 | S.RES ERJ3GEYJ 333 V (33 k) | T | 99.2/99.6 |
| R155 | 7030003620 | S.RES ERJ3GEYJ 333 V (33 k) | T | 38.5/57.8 |
| R156 | 7030003340 | S.RES ERJ3GEYJ 151 V (150 ) | T | 35.5/59.3 |
| R157 | 7030003320 | S.RES ERJ3GEYJ 101 V (100 ) | T | 43.1/55.5 |
| R158 | 7030003660 | S.RES ERJ3GEYJ 683 V (68 k) | T | 36.3/55.3 |
| R159 | 7030003560 | S.RES ERJ3GEYJ 103 V (10 k) | T | 102.7/75.5 |
| R160 | 7030003620 | S.RES ERJ3GEYJ 333 V (33 k) | T | 97.7/97.9 |
| R161 | 7030003390 | S.RES ERJ3GEYJ 391 V (390 ) | T | 99.5/76.2 |
| R162 | 7030003620 | S.RES ERJ3GEYJ 333 V (33 k) | T | 100.5/79.3 |
| R163 | 7030003640 | S.RES ERJ3GEYJ 473 V (47 k) | T | 98.5/80 |
| R164 | 7030003290 | S.RES ERJ3GEYJ 560 V (56 ) | B | 46.2/59.3 |
| R165 | 7030003440 | S.RES ERJ3GEYJ 102 V (1 k) | T | 5.5/28.5 |
| R166 | 7030003440 | S.RES ERJ3GEYJ 102 V (1 k) | T | 5.5/45.6 |
| R167 | 7030003390 | S.RES ERJ3GEYJ 391 V (390 ) | T | 10.4/29.3 |
| R168 | 7030003290 | S.RES ERJ3GEYJ 560 V (56 ) | T | 12.6/24 |
| | | | | |
| C1 | 4510004601 | ELE 16 ME 1000 HC+T0 | | |
| C2 | 4030006860 | S.CER C1608 JB 1H 102K-T | T | 10.8/120.8 |
| C3 | 4510008520 | S.ELE EEE1CA470SP | T | 15.5/126.7 |
| C4 | 4030006860 | S.CER C1608 JB 1H 102K-T | T | 21/127.5 |
| C5 | 4030006850 | S.CER C1608 JB 1H 471K-T | B | 57/124 |
| C6 | 4030006900 | S.CER C1608 JB 1H 103K-T | B | 15.5/102.2 |
| C7 | 4030006900 | S.CER C1608 JB 1H 103K-T | B | 27.7/108.2 |
| C8 | 4030007090 | S.CER C1608 CH 1H 470J-T | B | 44.2/106.4 |
| C9 | 4030007090 | S.CER C1608 CH 1H 470J-T | B | 52.5/106.2 |
| C10 | 4030006860 | S.CER C1608 JB 1H 102K-T | B | 40.2/106.9 |
| C11 | 4030007090 | S.CER C1608 CH 1H 470J-T | B | 51.3/106.2 |
| C12 | 4030007090 | S.CER C1608 CH 1H 470J-T | B | 50.1/106.2 |
| C13 | 4030006860 | S.CER C1608 JB 1H 102K-T | B | 37.5/106.9 |
| C14 | 4030011600 | S.CER C1608 JB 1E 104K-T | T | 91.8/110.3 |
| C15 | 4030011600 | S.CER C1608 JB 1E 104K-T | T | 90.8/23.3 |
| C17 | 4030006860 | S.CER C1608 JB 1H 102K-T | B | 54.9/123.9 |
| C18 | 4030006850 | S.CER C1608 JB 1H 471K-T | B | 50.9/123.9 |
| C19 | 4510008520 | S.ELE EEE1CA470SP | T | 22.3/115.2 |
| C20 | 4510008520 | S.ELE EEE1CA470SP | T | 65.9/115.5 |
| C21 | 4030008630 | S.CER C1608 JF 1H 104Z-T | B | 28.2/113.7 |
| C22 | 4030008630 | S.CER C1608 JF 1H 104Z-T | B | 74.7/113.7 |
| C23 | 4030006900 | S.CER C1608 JB 1H 103K-T | T | 4.7/119.7 |
| C24 | 4030007130 | S.CER C1608 CH 1H 101J-T | B | 52.9/123.9 |
| C25 | 4510008520 | S.ELE EEE1CA470SP | T | 65.9/101 |
| C26 | 4030011600 | S.CER C1608 JB 1E 104K-T | B | 75/106 |
| C27 | 4030011600 | S.CER C1608 JB 1E 104K-T | T | 22/93.4 |
| C28 | 4030006900 | S.CER C1608 JB 1H 103K-T | B | 22/112.5 |
| C29 | 4030007090 | S.CER C1608 CH 1H 470J-T | B | 20.7/112.5 |
| C30 | 4030007090 | S.CER C1608 CH 1H 470J-T | B | 19.3/102 |
| C31 | 4030007090 | S.CER C1608 CH 1H 470J-T | B | 20.5/102 |
| C32 | 4030006990 | S.CER C1608 CH 1H 080D-T | T | 62.8/25.2 |
| C33 | 4030006950 | S.CER C1608 CH 1H 040C-T | T | 59.5/26 |
| C34 | 4030006990 | S.CER C1608 CH 1H 080D-T | T | 62.7/26.6 |
| C35 | 4030006850 | S.CER C1608 JB 1H 471K-T | T | 73.8/21.3 |
| C36 | 4030006860 | S.CER C1608 JB 1H 102K-T | T | 62.7/20.7 |
| C37 | 4030011600 | S.CER C1608 JB 1E 104K-T | T | 73.7/22.7 |
| C38 | 4030011600 | S.CER C1608 JB 1E 104K-T | T | 88.8/26.5 |
| C39 | 4030007130 | S.CER C1608 CH 1H 101J-T | T | 81.8/29.4 |
| C40 | 4030007130 | S.CER C1608 CH 1H 101J-T | T | 81.8/24.2 |
| C41 | 4030008630 | S.CER C1608 JF 1H 104Z-T | B | 38.8/113.7 |
| C42 | 4030008630 | S.CER C1608 JF 1H 104Z-T | B | 72.5/111.7 |
| C43 | 4510008590 | S.ELE EEE1AA101SP | T | 42.2/113.7 |
| C44 | 4510008590 | S.ELE EEE1AA101SP | T | 66/108.3 |
| C45 | 4030011600 | S.CER C1608 JB 1E 104K-T | B | 72.7/103.7 |
| C46 | 4030011600 | S.CER C1608 JB 1E 104K-T | T | 22/96.9 |
| C47 | 4510008590 | S.ELE EEE1AA101SP | T | 75.2/97.9 |

## [MAIN-T UNIT]

| REF NO. | ORDER NO. | DESCRIPTION | M. | H/V LOCATION |
|---|---|---|---|---|
| C48 | 4550006780 | S.TAN TEESVB2 0J 476M8R | T | 25.5/95.9 |
| C49 | 4030007090 | S.CER C1608 CH 1H 470J-T | B | 19.5/112.5 |
| C50 | 4030007090 | S.CER C1608 CH 1H 470J-T | B | 17/112.5 |
| C52 | 4030007090 | S.CER C1608 CH 1H 470J-T | B | 18.1/102 |
| C53 | 4030007090 | S.CER C1608 CH 1H 470J-T | B | 16.7/102.2 |
| C54 | 4030006860 | S.CER C1608 JB 1H 102K-T | T | 85.8/38.3 |
| C55 | 4030006860 | S.CER C1608 JB 1H 102K-T | T | 60/30.6 |
| C56 | 4030007050 | S.CER C1608 CH 1H 220J-T | T | 60.3/41.2 |
| C57 | 4030007050 | S.CER C1608 CH 1H 220J-T | T | 62.7/41.9 |
| C58 | 4030006980 | S.CER C1608 CH 1H 070D-T | T | 63.5/47.8 |
| C59 | 4030006860 | S.CER C1608 JB 1H 102K-T | T | 75.1/33.3 |
| C60 | 4030006990 | S.CER C1608 CH 1H 080D-T | T | 74.7/36.2 |
| C61 | 4030006960 | S.CER C1608 CH 1H 050C-T | T | 73/32.6 |
| C62 | 4030007090 | S.CER C1608 CH 1H 470J-T | T | 74.8/25.2 |
| C63 | 4030007090 | S.CER C1608 CH 1H 470J-T | T | 74.7/26.5 |
| C64 | 4030007090 | S.CER C1608 CH 1H 470J-T | T | 74.8/27.7 |
| C65 | 4030007090 | S.CER C1608 CH 1H 470J-T | T | 74.7/29 |
| C66 | 4030007090 | S.CER C1608 CH 1H 470J-T | B | 73.5/21.5 |
| C67 | 4550006250 | S.TAN TEESVA 1A 106M8R | B | 79.5/20.8 |
| C68 | 4030011600 | S.CER C1608 JB 1E 104K-T | B | 82.2/20.2 |
| C69 | 4510008520 | S.ELE EEE1CA470SP | T | 42.7/99.7 |
| C70 | 4510008520 | S.ELE EEE1CA470SP | T | 52.8/100 |
| C71 | 4030006860 | S.CER C1608 JB 1H 102K-T | T | 66/46.1 |
| C72 | 4030006860 | S.CER C1608 JB 1H 102K-T | T | 67.9/46.1 |
| C73 | 4030006990 | S.CER C1608 CH 1H 080D-T | T | 73.5/40.8 |
| C74 | 4030007030 | S.CER C1608 CH 1H 150J-T | T | 71/41.8 |
| C75 | 4030006990 | S.CER C1608 CH 1H 080D-T | T | 73.5/42.9 |
| C76 | 4030006960 | S.CER C1608 CH 1H 050C-T | T | 72/46.6 |
| C77 | 4030006990 | S.CER C1608 CH 1H 080D-T | T | 73.5/36.2 |
| C78 | 4030006860 | S.CER C1608 JB 1H 102K-T | T | 60.2/47 |
| C79 | 4030006860 | S.CER C1608 JB 1H 102K-T | T | 69.8/32.5 |
| C80 | 4030007090 | S.CER C1608 CH 1H 470J-T | T | 70.4/34.7 |
| C81 | 4030006860 | S.CER C1608 JB 1H 102K-T | T | 68.3/37 |
| C82 | 4030006860 | S.CER C1608 JB 1H 102K-T | T | 62.4/32.9 |
| C83 | 4030007090 | S.CER C1608 CH 1H 470J-T | B | 76.5/22.5 |
| C84 | 4030007090 | S.CER C1608 CH 1H 470J-T | B | 72/22.9 |
| C85 | 4030007090 | S.CER C1608 CH 1H 470J-T | B | 67.9/26.2 |
| C86 | 4550006350 | S.TAN TEESVB2 1A 226M8R | T | 27/11.2 |
| C87 | 4550006350 | S.TAN TEESVB2 1A 226M8R | T | 30.5/11.2 |
| C88 | 4030011600 | S.CER C1608 JB 1E 104K-T | T | 33.7/15.2 |
| C89 | 4030006900 | S.CER C1608 JB 1H 103K-T | B | 25.1/63.9 |
| C90 | 4030007040 | S.CER C1608 CH 1H 180J-T | T | 73.5/48.2 |
| C91 | 4030006960 | S.CER C1608 CH 1H 050C-T | T | 69.6/48.9 |
| C92 | 4030006990 | S.CER C1608 CH 1H 080D-T | T | 73.5/49.7 |
| C93 | 4030007020 | S.CER C1608 CH 1H 120J-T | T | 60.2/49.6 |
| C94 | 4030007020 | S.CER C1608 CH 1H 120J-T | T | 66/50.4 |
| C95 | 4030007020 | S.CER C1608 CH 1H 120J-T | T | 60.2/51.3 |
| C96 | 4030007010 | S.CER C1608 CH 1H 100D-T | T | 61.6/36.3 |
| C97 | 4550006350 | S.TAN TEESVB2 1A 226M8R | T | 34/11.2 |
| C98 | 4030009520 | S.CER C1608 CH 1H 020B-T | T | 36.7/21.8 |
| C99 | 4030006860 | S.CER C1608 JB 1H 102K-T | T | 29.2/23 |
| C100 | 4030006900 | S.CER C1608 JB 1H 103K-T | B | 41.2/20.2 |
| C101 | 4030006900 | S.CER C1608 JB 1H 103K-T | B | 29.8/28.5 |
| C102 | 4030006900 | S.CER C1608 JB 1H 103K-T | B | 29.8/30 |
| C103 | 4610001590 | S.TRI TZC3R100A110R00 | T | 43/24.5 |
| C104 | 4030009920 | S.CER C1608 CH 1H 050B-T | T | 39/23 |
| C105 | 4030009530 | S.CER C1608 CH 1H 030B-T | T | 39/21.8 |
| C106 | 4550005980 | S.TAN TEESVA 1A 475M8R | B | 44.3/29 |
| C107 | 4550005980 | S.TAN TEESVA 1A 475M8R | B | 42/29 |
| C108 | 4030006900 | S.CER C1608 JB 1H 103K-T | B | 39.5/28 |
| C109 | 4030011600 | S.CER C1608 JB 1E 104K-T | B | 33/34.5 |
| C110 | 4030006860 | S.CER C1608 JB 1H 102K-T | B | 37.5/34.2 |
| C111 | 4030006860 | S.CER C1608 JB 1H 102K-T | B | 63.4/61.6 |
| C112 | 4030007040 | S.CER C1608 CH 1H 180J-T | B | 63.4/63.1 |
| C113 | 4030007010 | S.CER C1608 CH 1H 100D-T | B | 63.4/65 |
| C114 | 4030006860 | S.CER C1608 JB 1H 102K-T | T | 54.6/31.1 |
| C115 | 4030006860 | S.CER C1608 JB 1H 102K-T | T | 53.1/31.9 |
| C116 | 4030007010 | S.CER C1608 CH 1H 100D-T | T | 55.3/28.5 |
| C117 | 4030006860 | S.CER C1608 JB 1H 102K-T | T | 29.2/24.5 |
| C118 | 4030007050 | S.CER C1608 CH 1H 220J-T | T | 36.5/25 |
| C119 | 4030011600 | S.CER C1608 JB 1E 104K-T | T | 29.3/26.2 |
| C120 | 4030006860 | S.CER C1608 JB 1H 102K-T | T | 30.7/36.5 |
| C121 | 4030009500 | S.CER C1608 CH 1H 0R5B-T | T | 36.5/28.4 |
| C122 | 4030006860 | S.CER C1608 JB 1H 102K-T | B | 29.7/31.7 |
| C123 | 4030009520 | S.CER C1608 CH 1H 020B-T | T | 39/24.4 |
| C124 | 4030007050 | S.CER C1608 CH 1H 220J-T | T | 39/29.2 |
| C125 | 4030007010 | S.CER C1608 CH 1H 100D-T | B | 60/75.7 |
| C126 | 4030007040 | S.CER C1608 CH 1H 180J-T | B | 66.4/75.4 |
| C127 | 4030006860 | S.CER C1608 JB 1H 102K-T | B | 68.6/74.7 |
| C128 | 4030009500 | S.CER C1608 CH 1H 0R5B-T | B | 69.4/72.4 |
| C129 | 4030006860 | S.CER C1608 JB 1H 102K-T | T | 50.9/34.2 |
| C130 | 4030006860 | S.CER C1608 JB 1H 102K-T | T | 48.5/31.9 |
| C131 | 4030006860 | S.CER C1608 JB 1H 102K-T | T | 54.5/23 |
| C132 | 4030009510 | S.CER C1608 CH 1H 010B-T | T | 48.5/29.2 |
| C133 | 4030007010 | S.CER C1608 CH 1H 100D-T | T | 50/31.9 |
| C134 | 4030006860 | S.CER C1608 JB 1H 102K-T | T | 29.2/29.9 |
| C135 | 4030007090 | S.CER C1608 CH 1H 470J-T | T | 32.4/33.6 |
| C136 | 4030006860 | S.CER C1608 JB 1H 102K-T | T | 32/59.8 |
| C137 | 4030006860 | S.CER C1608 JB 1H 102K-T | T | 37.5/34.2 |
| C138 | 4030007090 | S.CER C1608 CH 1H 470J-T | T | 42.4/36.6 |
| C139 | 4030006860 | S.CER C1608 JB 1H 102K-T | T | 42.9/33.5 |

M.=Mounted side (T: Mounted on the Top side, B: Mounted on the Bottom side)
S.=Surface mount

## [MAIN-T UNIT]

| REF NO. | ORDER NO. | DESCRIPTION | | M. | H/V LOCATION |
|---|---|---|---|---|---|
| C140 | 4030009530 | S.CER | C1608 CH 1H 030B-T | B | 39.5/33.5 |
| C141 | 4030009530 | S.CER | C1608 CH 1H 030B-T | B | 42.3/33.5 |
| C142 | 4030006970 | S.CER | C1608 CH 1H 060D-T | B | 38.7/36.8 |
| C143 | 4030007030 | S.CER | C1608 CH 1H 150J-T | B | 40.2/36.9 |
| C144 | 4030006860 | S.CER | C1608 JB 1H 102K-T | B | 73.9/76.7 |
| C145 | 4030007050 | S.CER | C1608 CH 1H 220J-T | B | 79.5/74.3 |
| C146 | 4030006860 | S.CER | C1608 JB 1H 102K-T | B | 75.4/67.5 |
| C147 | 4030006850 | S.CER | C1608 JB 1H 471K-T | B | 73.9/67.5 |
| C148 | 4030006860 | S.CER | C1608 JB 1H 102K-T | B | 84.7/73.5 |
| C149 | 4030007020 | S.CER | C1608 CH 1H 120J-T | B | 85.4/71.3 |
| C150 | 4550006350 | S.TAN | TEESVB2 1A 226M8R | T | 16.4/44.7 |
| C151 | 4030006970 | S.CER | C1608 CH 1H 060D-T | B | 43/36.9 |
| C152 | 4030006860 | S.CER | C1608 JB 1H 102K-T | T | 95/76 |
| C153 | 4030006860 | S.CER | C1608 JB 1H 102K-T | B | 85.4/61.8 |
| C154 | 4030006850 | S.CER | C1608 JB 1H 471K-T | B | 89.1/62.5 |
| C155 | 4030006850 | S.CER | C1608 JB 1H 471K-T | B | 85.4/60 |
| C156 | 4030007100 | S.CER | C1608 CH 1H 560J-T | B | 89.9/60.3 |
| C157 | 4030006960 | S.CER | C1608 CH 1H 050C-T | T | 48.6/42.3 |
| C158 | 4030009520 | S.CER | C1608 CH 1H 020B-T | T | 52.2/43 |
| C159 | 4030007010 | S.CER | C1608 CH 1H 100D-T | T | 49.3/44.6 |
| C160 | 4030009520 | S.CER | C1608 CH 1H 020B-T | T | 52.2/46.1 |
| C161 | 4030006960 | S.CER | C1608 CH 1H 050C-T | T | 48.6/46.8 |
| C162 | 4030007010 | S.CER | C1608 CH 1H 100D-T | T | 53.1/48.4 |
| C163 | 4030006860 | S.CER | C1608 JB 1H 102K-T | T | 49/49.7 |
| C164 | 4550006350 | S.TAN | TEESVB2 1A 226M8R | T | 19.8/44.7 |
| C165 | 4030011600 | S.CER | C1608 JB 1E 104K-T | T | 23.3/48.7 |
| C166 | 4550006350 | S.TAN | TEESVB2 1A 226M8R | T | 23.3/44.7 |
| C167 | 4030006860 | S.CER | C1608 JB 1H 102K-T | T | 30.9/51 |
| C168 | 4030006900 | S.CER | C1608 JB 1H 103K-T | B | 42.2/43.2 |
| C169 | 4550000460 | S.TAN | TEESVA 1C 105M8R | B | 45.2/49.5 |
| C170 | 4030007040 | S.CER | C1608 CH 1H 180J-T | T | 97.3/55.2 |
| C171 | 4030007120 | S.CER | C1608 CH 1H 820J-T | T | 98/60.4 |
| C172 | 4030007120 | S.CER | C1608 CH 1H 820J-T | T | 99.5/60.4 |
| C173 | 4030007130 | S.CER | C1608 CH 1H 101J-T | T | 112.4/48.3 |
| C174 | 4030006860 | S.CER | C1608 JB 1H 102K-T | T | 110.8/54.7 |
| C175 | 4030006860 | S.CER | C1608 JB 1H 102K-T | T | 112.4/49.8 |
| C176 | 4030006850 | S.CER | C1608 JB 1H 471K-T | T | 110.8/55.9 |
| C177 | 4030006860 | S.CER | C1608 JB 1H 102K-T | T | 54.6/53.2 |
| C178 | 4030006860 | S.CER | C1608 JB 1H 102K-T | T | 54.6/56.4 |
| C179 | 4030006860 | S.CER | C1608 JB 1H 102K-T | T | 99.5/63.8 |
| C180 | 4030006960 | S.CER | C1608 CH 1H 050C-T | T | 49/55 |
| C181 | 4030006860 | S.CER | C1608 JB 1H 102K-T | T | 51/57.2 |
| C182 | 4030009540 | S.CER | C1608 CH 1H 1R5B-T | T | 37.7/45.3 |
| C183 | 4030009910 | S.CER | C1608 CH 1H 040B-T | T | 39.7/46.1 |
| C184 | 4030007130 | S.CER | C1608 CH 1H 101J-T | T | 30.8/46.2 |
| C185 | 4030006860 | S.CER | C1608 JB 1H 102K-T | T | 29.3/46.2 |
| C186 | 4030007030 | S.CER | C1608 CH 1H 150J-T | T | 37/51.9 |
| C187 | 4610001590 | S.TRI | TZC3R100A110R00 | T | 43/48 |
| C188 | 4030006900 | S.CER | C1608 JB 1H 103K-T | B | 29.2/52 |
| C189 | 4030006900 | S.CER | C1608 JB 1H 103K-T | B | 29.2/53.5 |
| C190 | 4030009520 | S.CER | C1608 CH 1H 020B-T | T | 37/48.4 |
| C191 | 4030006860 | S.CER | C1608 JB 1H 102K-T | B | 29.2/55.4 |
| C192 | 4550000530 | S.TAN | TEESVA 1V 104M8R | B | 45.2/51.7 |
| C193 | 4550005980 | S.TAN | TEESVA 1A 475M8R | B | 45.2/54 |
| C194 | 4030006900 | S.CER | C1608 JB 1H 103K-T | B | 38.8/53.2 |
| C195 | 4030011600 | S.CER | C1608 JB 1E 104K-T | B | 33.7/57.5 |
| C196 | 4030006860 | S.CER | C1608 JB 1H 102K-T | B | 37.2/58.2 |
| C197 | 4030007050 | S.CER | C1608 CH 1H 220J-T | T | 109.7/60.4 |
| C198 | 4030006860 | S.CER | C1608 JB 1H 102K-T | T | 101/66.8 |
| C199 | 4550006250 | S.TAN | TEESVA 1A 106M8R | T | 111.5/71.5 |
| C200 | 4030006860 | S.CER | C1608 JB 1H 102K-T | T | 114.7/81.2 |
| C201 | 4030011600 | S.CER | C1608 JB 1E 104K-T | T | 115.5/72.7 |
| C202 | 4030009570 | S.CER | C1608 CH 1H 0R3B-T | T | 34.7/53.5 |
| C203 | 4030006860 | S.CER | C1608 JB 1H 102K-T | T | 28.8/58.8 |
| C204 | 4030006860 | S.CER | C1608 JB 1H 102K-T | T | 29.5/53.6 |
| C205 | 4030009520 | S.CER | C1608 CH 1H 020B-T | T | 33.1/57.6 |
| C206 | 4030007030 | S.CER | C1608 CH 1H 150J-T | T | 38.5/54.9 |
| C207 | 4030006860 | S.CER | C1608 JB 1H 102K-T | T | 91.3/88.1 |
| C208 | 4030008630 | S.CER | C1608 JF 1H 104Z-T | T | 92.6/88.1 |
| C209 | 4030006860 | S.CER | C1608 JB 1H 102K-T | T | 98.5/90 |
| C210 | 4030008630 | S.CER | C1608 JF 1H 104Z-T | T | 100/90 |
| C211 | 4030006860 | S.CER | C1608 JB 1H 102K-T | T | 106.8/90 |
| C212 | 4030008630 | S.CER | C1608 JF 1H 104Z-T | T | 108.1/90 |
| C213 | 4030006860 | S.CER | C1608 JB 1H 102K-T | T | 120/72.7 |
| C215 | 4030006860 | S.CER | C1608 JB 1H 102K-T | T | 101.4/95.1 |
| C216 | 4030011020 | S.CER | GRM31M4C2H1R0CY21L | T | 105.1/97.3 |
| C218 | 4030006860 | S.CER | C1608 JB 1H 102K-T | T | 117/72.7 |
| C219 | 4030006860 | S.CER | C1608 JB 1H 102K-T | T | 98.7/95.2 |
| C220 | 4030008920 | S.CER | C1608 JB 1H 473K-T | T | 105.5/75.5 |
| C222 | 4030006860 | S.CER | C1608 JB 1H 102K-T | T | 37/59.3 |
| C223 | 4030006860 | S.CER | C1608 JB 1H 102K-T | T | 30.2/59.8 |
| C224 | 4030006860 | S.CER | C1608 JB 1H 102K-T | T | 43.1/57.1 |
| C225 | 4030009530 | S.CER | C1608 CH 1H 030B-T | T | 42.8/59.3 |
| C226 | 4030006960 | S.CER | C1608 CH 1H 050C-T | B | 38.7/60.9 |
| C227 | 4030009520 | S.CER | C1608 CH 1H 020B-T | B | 39.5/57.8 |
| C228 | 4030007010 | S.CER | C1608 CH 1H 100D-T | B | 40.2/60.9 |
| C229 | 4030009520 | S.CER | C1608 CH 1H 020B-T | B | 42.2/57.8 |
| C230 | 4030011200 | S.CER | GRM31M2C2H300JV01L | T | 108.3/95.1 |
| C231 | 4030006860 | S.CER | C1608 JB 1H 102K-T | T | 114.8/90.1 |
| C232 | 4030006860 | S.CER | C1608 JB 1H 102K-T | T | 94/102 |
| C233 | 4030008630 | S.CER | C1608 JF 1H 104Z-T | T | 116.1/90.1 |

## [MAIN-T UNIT]

| REF NO. | ORDER NO. | DESCRIPTION | | M. | H/V LOCATION |
|---|---|---|---|---|---|
| C234 | 4030006850 | S.CER | C1608 JB 1H 471K-T | T | 117.4/90.1 |
| C235 | 4030011020 | S.CER | GRM31M4C2H1R0CY21L | T | 98.8/103.6 |
| C237 | 4030011160 | S.CER | GRM31M2C2H150JV01L | T | 98.8/105.9 |
| C238 | 4030018770 | S.CER | C3216 CH 2J 102J-T | T | 111/107.4 |
| C239 | 4030011210 | S.CER | GRM31M2C2H330JV01L | T | 110.9/117 |
| C240 | 4030011060 | S.CER | GRM31M2C2H4R0CY21L | T | 116.7/117 |
| C241 | 4030006900 | S.CER | C1608 JB 1H 103K-T | T | 107.2/80.5 |
| C242 | 4030006860 | S.CER | C1608 JB 1H 102K-T | T | 94.2/97.9 |
| C243 | 4030006860 | S.CER | C1608 JB 1H 102K-T | T | 100.7/76.2 |
| C244 | 4030011600 | S.CER | C1608 JB 1E 104K-T | T | 103.1/79.3 |
| C245 | 4030006860 | S.CER | C1608 JB 1H 102K-T | T | 101.8/79.3 |
| C246 | 4030006860 | S.CER | C1608 JB 1H 102K-T | T | 7/30 |
| C247 | 4030006860 | S.CER | C1608 JB 1H 102K-T | T | 3.9/28.5 |
| C249 | 4030006960 | S.CER | C1608 CH 1H 050C-T | B | 43/60.9 |
| C250 | 4030006860 | S.CER | C1608 JB 1H 102K-T | T | 10.4/28.1 |
| C253 | 4030011180 | S.CER | GRM31M2C2H220JV01L | T | 110.8/119.8 |
| C254 | 4030011180 | S.CER | GRM31M2C2H220JV01L | T | 110.8/122.9 |
| C255 | 4030011070 | S.CER | GRM31M2C2H5R0CY21L | B | 118.9/120.4 |
| C256 | 4030011180 | S.CER | GRM31M2C2H220JV01L | T | 110.8/126 |
| C257 | 4030011180 | S.CER | GRM31M2C2H220JV01L | B | 114.3/125.7 |
| C258 | 4030007130 | S.CER | C1608 CH 1H 101J-T | T | 9.6/25.5 |
| C259 | 4030006860 | S.CER | C1608 JB 1H 102K-T | B | 76.9/67.5 |
| C260 | 4030009910 | S.CER | C1608 CH 1H 040B-T | T | 63.5/44.2 |
| C261 | 4030006860 | S.CER | C1608 JB 1H 102K-T | T | 108.7/76 |
| J1 | 6510009351 | CNR | B2B-ZR (LF) (SN) | | |
| J2 | 6510021720 | S.CNR | 30FLT-SM1-TB | T | 23/107.2 |
| J3 | 6510021720 | S.CNR | 30FLT-SM1-TB | T | 45/107.2 |
| J4 | 6510018450 | CNR | TMP-S01X-B1 | | |
| W1 | 8900004880 | CBL | OPC-465 | | |
| EP1 | 6910013310 | S.BEA | MMZ1608D121B | T | 83.5/39 |
| EP4 | 6910013310 | S.BEA | MMZ1608D121B | B | 78.4/67.5 |
| EP5 | 6910013310 | S.BEA | MMZ1608D121B | T | 90.2/80.7 |
| EP6 | 6910013310 | S.BEA | MMZ1608D121B | T | 23.2/50.5 |
| EP7 | 6910013310 | S.BEA | MMZ1608D121B | T | 111.6/46.2 |
| EP8 | 6910013310 | S.BEA | MMZ1608D121B | T | 118.5/72.7 |
| EP9 | 6910013310 | S.BEA | MMZ1608D121B | T | 33.7/16.7 |

## [FRONT UNIT]

| REF NO. | ORDER NO. | DESCRIPTION | | M. | H/V LOCATION |
|---|---|---|---|---|---|
| D1 | 1730002300 | S.ZEN | MA8082-M (TX) | T | 7.5/21.8 |
| D3 | 1790001711 | S.DIO | NNCD5.6C-T1-A | T | 57.5/16.7 |
| D4 | 1790001711 | S.DIO | NNCD5.6C-T1-A | T | 53/16.7 |
| D5 | 1790001711 | S.DIO | NNCD5.6C-T1-A | T | 48.4/16.7 |
| D6 | 1790001711 | S.DIO | NNCD5.6C-T1-A | T | 43.9/16.7 |
| D7 | 1790001711 | S.DIO | NNCD5.6C-T1-A | T | 78/16.6 |
| D8 | 1790001711 | S.DIO | NNCD5.6C-T1-A | T | 73.5/16.6 |
| D9 | 1790001711 | S.DIO | NNCD5.6C-T1-A | T | 69/16.7 |
| D10 | 1790001711 | S.DIO | NNCD5.6C-T1-A | T | 64.5/16.6 |
| R1 | 7030006250 | S.RES | ERJ12YJ271U (270 ) | T | 8.5/30.5 |
| R2 | 7030008180 | S.RES | ERJ12YJ331U (330 ) | T | 8.5/7.8 |
| R3 | 7030003860 | S.RES | ERJ3GE JPW V | T | 60.5/16.5 |
| R4 | 7030003860 | S.RES | ERJ3GE JPW V | T | 56/16.5 |
| R5 | 7030003860 | S.RES | ERJ3GE JPW V | T | 51.5/16.5 |
| R6 | 7030003860 | S.RES | ERJ3GE JPW V | T | 46.9/16.5 |
| R7 | 7030003860 | S.RES | ERJ3GE JPW V | T | 81/16.5 |
| R8 | 7030003860 | S.RES | ERJ3GE JPW V | T | 76.5/16.5 |
| R9 | 7030003860 | S.RES | ERJ3GE JPW V | T | 72/16.5 |
| R10 | 7030003860 | S.RES | ERJ3GE JPW V | T | 67.5/16.5 |
| C1 | 4030011600 | S.CER | C1608 JB 1E 104K-T | T | 7.2/18.8 |
| C2 | 4510008800 | S.ELE | EEE1EA100SR | T | 9.4/25.7 |
| C3 | 4030007050 | S.CER | C1608 CH 1H 220J-T | T | 59/16.5 |
| C4 | 4030007050 | S.CER | C1608 CH 1H 220J-T | T | 54.5/16.5 |
| C5 | 4030007050 | S.CER | C1608 CH 1H 220J-T | T | 49.9/16.5 |
| C6 | 4030007050 | S.CER | C1608 CH 1H 220J-T | T | 45.4/16.5 |
| C7 | 4030007050 | S.CER | C1608 CH 1H 220J-T | T | 79.5/16.5 |
| C8 | 4030007050 | S.CER | C1608 CH 1H 220J-T | T | 75/16.5 |
| C9 | 4030007050 | S.CER | C1608 CH 1H 220J-T | T | 70.5/16.5 |
| C10 | 4030007050 | S.CER | C1608 CH 1H 220J-T | T | 66/16.5 |
| C11 | 4030006850 | S.CER | C1608 JB 1H 471K-T | T | 7.2/20.1 |
| J1 | 6450002101 | CNR | CMS1410-016010 | | |
| J2 | 6450002101 | CNR | CMS1410-016010 | | |
| J3 | 6510020251 | S.CNR | B9B-PH-SM4-TB (LF) (SN) | T | 22.4/39.5 |
| J4 | 6510022311 | S.CNR | B5B-PH-SM4-TB (LF) (SN) | T | 72.5/39.5 |

M.=Mounted side (T: Mounted on the Top side, B: Mounted on the Bottom side)
S.=Surface mount

## [FRONT UNIT]

| REF NO. | ORDER NO. | DESCRIPTION | | M. | H/V LOCATION |
|---|---|---|---|---|---|
| DS1 | 5040003070 | LED | MPG4371F | | |
| S1 | 2220000631 | SW | MFS201N-16-Z | | |

## [REAR UNIT]

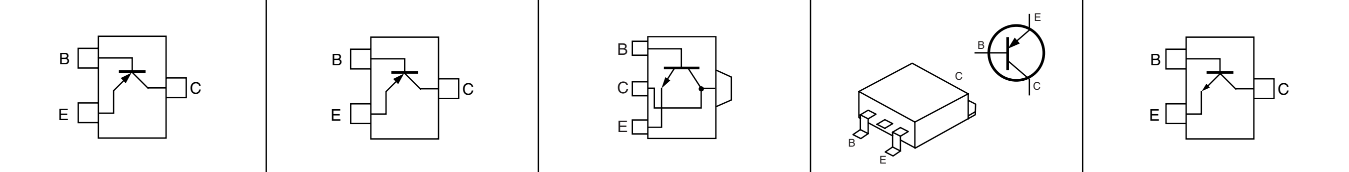
| REF NO. | ORDER NO. | DESCRIPTION | | M. | H/V LOCATION |
|---|---|---|---|---|---|
| D1 | 1790001711 | S.DIO | NNCD5.6C-T1-A | T | 36.9/71.8 |
| D2 | 1790001711 | S.DIO | NNCD5.6C-T1-A | T | 32.9/71.8 |
| D3 | 1790001711 | S.DIO | NNCD5.6C-T1-A | T | 24.9/71.8 |
| D4 | 1790001711 | S.DIO | NNCD5.6C-T1-A | T | 20.9/71.8 |
| D5 | 1790001711 | S.DIO | NNCD5.6C-T1-A | T | 16.9/71.7 |
| D6 | 1790001711 | S.DIO | NNCD5.6C-T1-A | T | 12.9/71.8 |
| D7 | 1790000700 | DIO | DSA3A1 | | |
| D8 | 1790001711 | S.DIO | NNCD5.6C-T1-A | T | 28.9/71.8 |
| R1 | 7030003300 | S.RES | ERJ3GEYJ 680 V (68 ) | T | 36/76.4 |
| R2 | 7030003300 | S.RES | ERJ3GEYJ 680 V (68 ) | T | 32/76.4 |
| R3 | 7030003300 | S.RES | ERJ3GEYJ 680 V (68 ) | T | 24/76.4 |
| R4 | 7030003320 | S.RES | ERJ3GEYJ 101 V (100 ) | T | 20/76.4 |
| R5 | 7030003320 | S.RES | ERJ3GEYJ 101 V (100 ) | T | 16/76.4 |
| R6 | 7030003300 | S.RES | ERJ3GEYJ 680 V (68 ) | T | 12/76.4 |
| R7 | 7030011030 | S.RES | ERJ1TYJ 270U (27 ) | T | 35.3/21.3 |
| R8 | 7030003340 | S.RES | ERJ3GEYJ 151 V (150 ) | T | 28/76.4 |
| C7 | 4510008800 | S.ELE | EEE1EA100SR | T | 40.8/26.6 |
| J1 | 6510018921 | S.CNR | B8B-PH-SM4-TB (LF) (SN) | T | 23.9/43 |
| J2 | 6510016171 | CNR | 52018-8836 | | |
| J3 | 6510023261 | S.CNR | B6B-PH-SM4-TB (LF) (SN) | T | 25.9/58.5 |
| J4 | 6510011591 | CNR | B2P-VH (LF) (SN) | | |
| J5 | 6510011461 | CNR | B6P-VH (LF) (SN) | | |
| J6 | 6510018961 | S.CNR | B2B-PH-SM4-TB (LF) (SN) | T | 39.8/36.3 |

M.=Mounted side (T: Mounted on the Top side, B: Mounted on the Bottom side)
S.=Surface mount

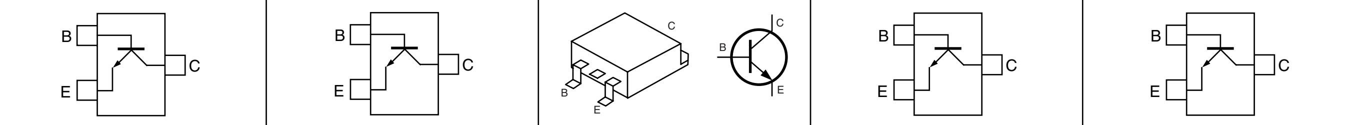
# SECTION 5 SEMICONDUCTOR INFORMATION

## • TRANSISTORS AND FET'S

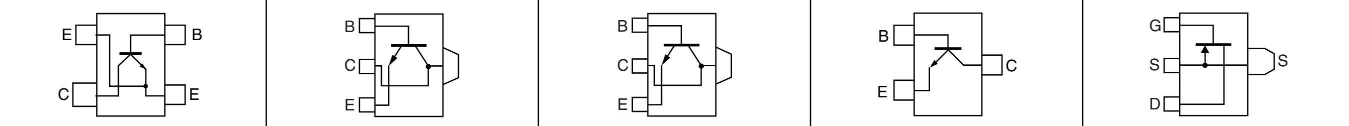
| | | | | |
|---|---|---|---|---|
| **2SA1362 GR**<br>(Symbol: AEG) | **2SA1586 GR**<br>(Symbol: SG) | **2SB798 T2 DK**<br>(Symbol: DK) | **2SB934 P**<br>(Symbol: None) | **2SC4081 T106 S**<br>(Symbol: BS) |



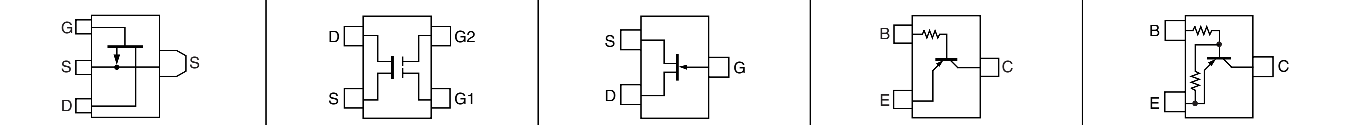
| | | | | |
|---|---|---|---|---|
| **2SC4215 O**<br>(Symbol: QO) | **2SC4226 T1 R25**<br>(Symbol: R25) | **2SC4684**<br>(Symbol: 2SC4684) | **2SC5107 O**<br>(Symbol: MFO) | **2SC5195**<br>(Symbol: 88) |



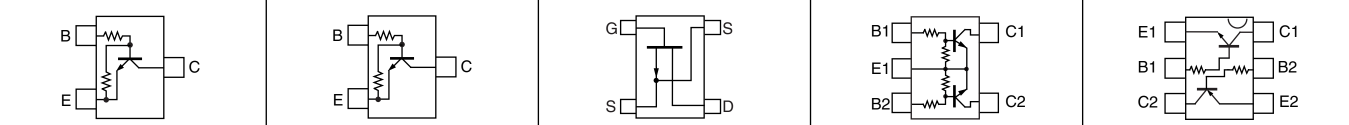
| | | | | |
|---|---|---|---|---|
| **2SC5454 R54**<br>(Symbol: R54) | **2SD1619 T TD**<br>(Symbol: DB) | **2SD1801 S TL**<br>(Symbol: CE) | **2SD2216J**<br>(Symbol: Y) | **2SK2854**<br>(Symbol: UP) |



| | | | | |
|---|---|---|---|---|
| **2SK2855**<br>(Symbol: UT) | **3SK241**<br>(Symbol: DU) | **DTA114EUA T106**<br>(Symbol: 14) | **DTA143TUA**<br>(Symbol: 93) | **DTA144EUA T106**<br>(Symbol: 16) |

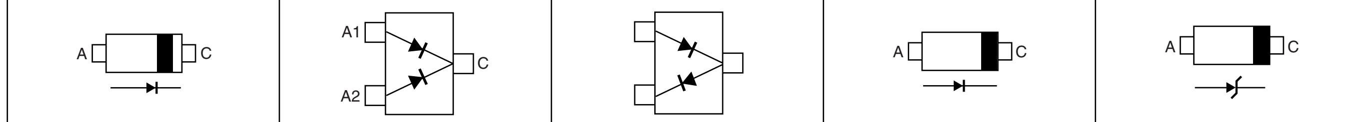


| | | | | |
|---|---|---|---|---|
| **DTC143ZUA**<br>(Symbol: 123) | **DTC144EUA T106**<br>(Symbol: 26) | **NE34018-T1 64**<br>(Symbol: V64) | **XP1214**<br>(Symbol: 9H) | **XP4315**<br>(Symbol: CB) |

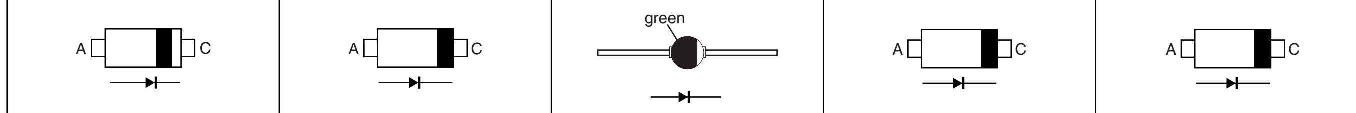


## • DIODES

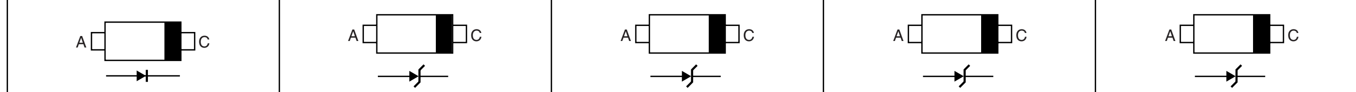
| | | | | |
|---|---|---|---|---|
| **1SS355**<br>(Symbol: A) | **1SS364**<br>(Symbol: BF) | **1SS372**<br>(Symbol: N9) | **1SV239**<br>(Symbol: TC) | **1SV282**<br>(Symbol: TD) |



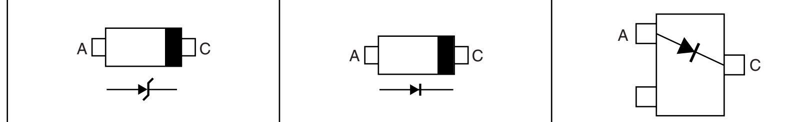
| | | | | |
|---|---|---|---|---|
| **1SV307**<br>(Symbol: TX) | **1SV308**<br>(Symbol: TX) | **DSA3A1**<br>(Color: Green) | **HSU88TRF**<br>(Symbol: 9) | **MA2S077**<br>(Symbol: S) |



| | | | | |
|---|---|---|---|---|
| **MA2S728**<br>(Symbol: B) | **MA8030 H**<br>(Symbol: 3^0) | **MA8033 L**<br>(Symbol: 3_3) | **MA8062 M**<br>(Symbol: 6-2) | **MA8082 M**<br>(Symbol: 8-2) |



| | | | | |
|---|---|---|---|---|
| **MA8091 M**<br>(Symbol: 9-1) | **NNCD5.6C-T1**<br>(Symbol: NNCD5.6) | **SB07-03C**<br>(Symbol: J) | | |



# SECTION 6 MECHANICAL PARTS

## [CASE]

| REF. NO. | ORDER NO. | DESCRIPTION | QTY. |
|---|---|---|---|
| MF1 | 2710000750 | FBA08A12LZ (RIB) | 1 |
| W1 | 8900013140 | OPC-1323 (2731 POWER-SW CABLE) | 1 |
| W2 | 8900013210 | OPC-1307 (2731 DC CABLE) | 1 |
| W3 | 8900013240 | OPC-1373 (2731 FAN CABLE) | 1 |
| W4 | 8900013170 | OPC-1306 (2731 TRX-ANT CABLE) | 1 |
| W5 | 8900013170 | OPC-1306 (2731 TRX-ANT CABLE) | 1 |
| EP1 | 6910008330 | G80-18 | 1 |
| MP1 | 8010019581 | 2732 CHASSIS-1 | 1 |
| MP2 | 8930062871 | 2731 R-PLATE-1 | 1 |
| MP3 | 8930062861 | 2731 L-PLATE-1 | 1 |
| MP4 | 8110008171 | 2731 COVER-1 | 1 |
| MP5 | 8210023000 | 2732 PANEL (B) | 1 |
| MP6 | 8930062851 | 2731 M-PLATE-1 | 2 |
| MP7 | 8930062851 | 2731 M-PLATE-1 | 2 |
| MP8 | 8930062841 | 2731 FAN HOLDER-1 | 2 |
| MP9 | 8930063090 | BH-60S | 1 |
| MP10 | 8850002040 | Z-8S | 4 |
| MP12 | 8930048350 | 2146 LENS | 1 |
| MP13 | 8950003170 | Nylon clip SL-8N | 1 |
| MP14 | 8810006470 | setscrew (C) 4×12 SUS | 4 |
| MP15 | 8810003361 | setscrew (C) 3×6 ZC3 | 4 |
| MP16 | 8810003361 | setscrew (C) 3×6 ZC3 | 4 |
| MP17 | 8810003361 | setscrew (C) 3×6 ZC3 | 4 |
| MP18 | 8810003361 | setscrew (C) 3×6 ZC3 | 4 |
| MP20 | 8810003361 | setscrew (C) 3×6 ZC3 | 1 |
| MP21 | 8810002950 | binding screw M3×6 SUS | 12 |
| MP22 | 8810002950 | binding screw M3×6 SUS | 2 |
| MP23 | 8810002950 | binding screw M3×6 SUS | 1 |
| MP24 | 8810010131 | setscrew (C) 3×35 ZC3 | 4 |
| MP25 | 8810003391 | setscrew (C) 4×8 ZC3 | 4 |
| MP26 | 8810003391 | setscrew (C) 4×8 ZC3 | 4 |
| MP27 | 8830000111 | Nut M4 ZC3 | 1 |
| MP28 | 8850000140 | flat washer M4 BS NI | 1 |
| MP29 | 8850000130 | flat washer M3 BS NI 3×8×0.5 | 1 |
| MP30 | 8810002950 | binding screw M3×6 SUS | 2 |

## [FRONT UNIT]

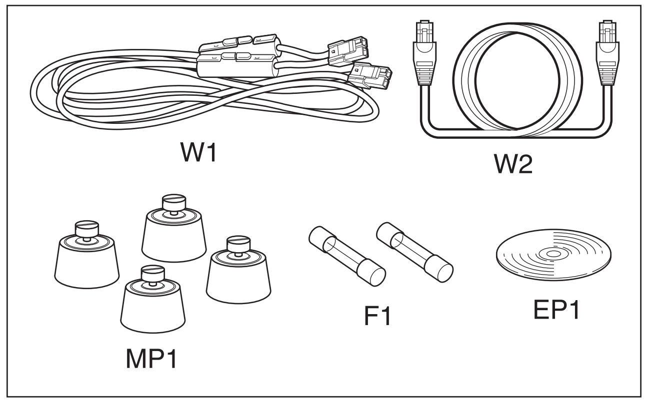
| REF. NO. | ORDER NO. | DESCRIPTION | QTY. |
|---|---|---|---|
| J1 | 6450002101 | CMS1410-016010 | 1 |
| J2 | 6450002101 | CMS1410-016010 | 1 |
| J3 | 6510020251 | B9B-PH-SM4-TB (LF) (SN) | 1 |
| J4 | 6510022311 | B5B-PH-SM4-TB (LF) (SN) | 1 |
| DS1 | 5040003070 | MPG4371F | 1 |
| S1 | 2220000631 | MFS201N-16-Z | 1 |

## [REAR UNIT]

| REF. NO. | ORDER NO. | DESCRIPTION | QTY. |
|---|---|---|---|
| J2 | 6510016171 | 52018-8836 | 1 |

## [ACCESSORIES]

| REF. NO. | ORDER NO. | DESCRIPTION | QTY. |
|---|---|---|---|
| F1 | 5210000071 | FGB 10A PBF | 2 |
| W1 | 8900013190 | OPC-1309 (2731 DC-IN CABLE) | 1 |
| W2 | 8900010551 | OPC-1069A | 1 |
| EP1 | 7800000330 | Utility CD | 1 |
| MP1 | 8930057680 | Rubber leg (O) | 4 |




**Screw abbreviations** BiH: Binding head
SUS: Stainless NI: Nickel
BS: Brass

## [CHASSIS-T PARTS]

| REF. NO. | ORDER NO. | DESCRIPTION | QTY. |
|---|---|---|---|
| IC204 | 1150002042 | RA30H1317M-121 | 1 |
| J1 | 6510004910 | NR-DSE-01 | 1 |
| P1 | 5610000380 | TMP-K01X-A1 | 1 |
| P2 | 5610000380 | TMP-K01X-A1 | 1 |
| MF1 | 2710000590 | MF40D-12H-001 * | 1 |
| W1 | 8900010890 | OPC-1115 | 1 |
| W2 | 8900010890 | OPC-1115 | 1 |
| W3 | 9025900540 | 62/99/270/C31/C31 | 1 |
| W4 | 9086700300 | 08 | 1 |
| MP1 | 8010019621 | 2506 CHASSIS (A)-2 | 1 |
| MP2 | 8810008661 | Screw BT B0 3×8 NI-ZC3 (BT) | 2 |
| MP3 | 8810008661 | Screw BT B0 3×8 NI-ZC3 (BT) | 2 |
| MP4 | 8810008661 | Screw BT B0 3×8 NI-ZC3 (BT) | 7 |
| MP5 | 8110006640 | 2047 COVER | 1 |
| MP6 | 8810008451 | binding screw M4×8 ZK3 | 1 |
| MP7 | 8810008661 | Screw BT B0 3×8 NI-ZC3 (BT) | 1 |
| MP9 | 8110005751 | 1729 FAN COVER-1 | 1 |
| MP10 | 8810009111 | Screw M2.6×16 ZK3 | 4 |
| MP11 | 8510012210 | 2047 MAIN SHIELD | 2 |
| MP12 | 8810007131 | setscrew (H) 3x6 ZC3 | 4 |
| MP13 | 8930001170 | earth spring (A) (FX-294) | 1 |

## [MAIN-T UNIT]

| REF. NO. | ORDER NO. | DESCRIPTION | QTY. |
|---|---|---|---|
| J1 | 6510009351 | B2B-ZR (LF) (SN) | 1 |
| J2 | 6510021721 | 30FLT-SM2-TB (LF) (SN) | 1 |
| J3 | 6510021721 | 30FLT-SM2-TB (LF) (SN) | 1 |
| J4 | 6510018450 | TMP-S01X-B1 | 1 |
| W1 | 8900004880 | OPC-465 | 1 |
| MP1 | 8510011111 | 1922 VCO CASE-1 | 1 |
| MP2 | 8510011111 | 1922 VCO CASE-1 | 1 |
| MP3 | 8510014760 | 2493 PLL CASE | 1 |
| MP4 | 8510017220 | 2850 VCO COVER | 1 |
| MP5 | 8510017220 | 2850 VCO COVER | 1 |
| MP6 | 8510014750 | 2493 PLL COVER | 1 |
| MP7 | 8930056580 | Spacer (AD) | 4 |
| MP8 | 8810007131 | setscrew (H) 3x6 ZC3 | 4 |
| MP9 | 8930059770 | 2633 M-HOLDER | 1 |
| MP10 | 8930014140 | earth spring (D) | 1 |

## [LOGIC-T UNIT]

| REF. NO. | ORDER NO. | DESCRIPTION | QTY. |
|---|---|---|---|
| J1 | 6510022711 | 30FLZ-SM2-TB (LF) (SN) | 1 |
| J2 | 6510022711 | 30FLZ-SM2-TB (LF) (SN) | 1 |
| J4 | 6510019271 | 52365-0671 | 1 |
| J5 | 6510021431 | S8B-ZR-SM4A-TF (LF) (SN) | 1 |
| J6 | 6510023861 | S9B-ZR-SM4A-TF (LF) (SN) | 1 |
| W1 | 8900013180 | OPC-1312 (2732 TX-CTRL CABLE) | 1 |
| MP1 | 8510014481 | 2506 CPU SHIELD-1 | 1 |
| MP3 | 8510002280 | VCO shield plate (A) (FX-15) | 1 |

## [CHASSIS-R PARTS]

| REF. NO. | ORDER NO. | DESCRIPTION | QTY. |
|---|---|---|---|
| J1 | 6510004910 | NR-DSE-01 | 1 |
| W1 | 8900010890 | OPC-1115 | 1 |
| W2 | 8900010890 | OPC-1115 | 1 |
| MP1 | 8010019621 | 2506 CHASSIS (A)-2 | 1 |
| MP2 | 8810008661 | screw BT B0 3×8 NI-ZC3 (BT) | 2 |
| MP3 | 8810008661 | screw BT B0 3×8 NI-ZC3 (BT) | 1 |
| MP4 | 8810008661 | screw BT B0 3×8 NI-ZC3 (BT) | 7 |
| MP5 | 8110006640 | 2047 COVER | 1 |
| MP6 | 8810008451 | binding screw M4×8 ZK3 | 1 |
| MP7 | 8510012210 | 2047 MAIN SHIELD | 2 |
| MP8 | 8810007131 | setscrew (H) 3×6 ZC3 | 4 |

## [MAIN-R UNIT]

| REF. NO. | ORDER NO. | DESCRIPTION | QTY. |
|---|---|---|---|
| J1 | 6510021721 | 30FLT-SM2-TB (LF) (SN) | 1 |
| J2 | 6510021721 | 30FLT-SM2-TB (LF) (SN) | 1 |
| J3 | 6510018450 | TMP-S01X-B1 | 1 |
| W1 | 8900004880 | OPC-465 | 1 |
| EP2 | 6910013310 | MMZ1608D121B | 1 |
| MP1 | 8510011111 | 1922 VCO CASE-1 | 1 |
| MP2 | 8510017220 | 2850 VCO COVER | 1 |
| MP3 | 8930056580 | Spacer (AD) | 4 |
| MP4 | 8810007131 | setscrew (H) 3x6 ZC3 | 4 |
| MP5 | 8510002280 | VCOshield plate (A) (FX-15) | 1 |
| MP6 | 8930014140 | earth spring (D) | 1 |
| MP7 | 8510016420 | 2506 VCO CASE | 1 |
| MP8 | 8510016430 | 2506 VCO COVER | 1 |

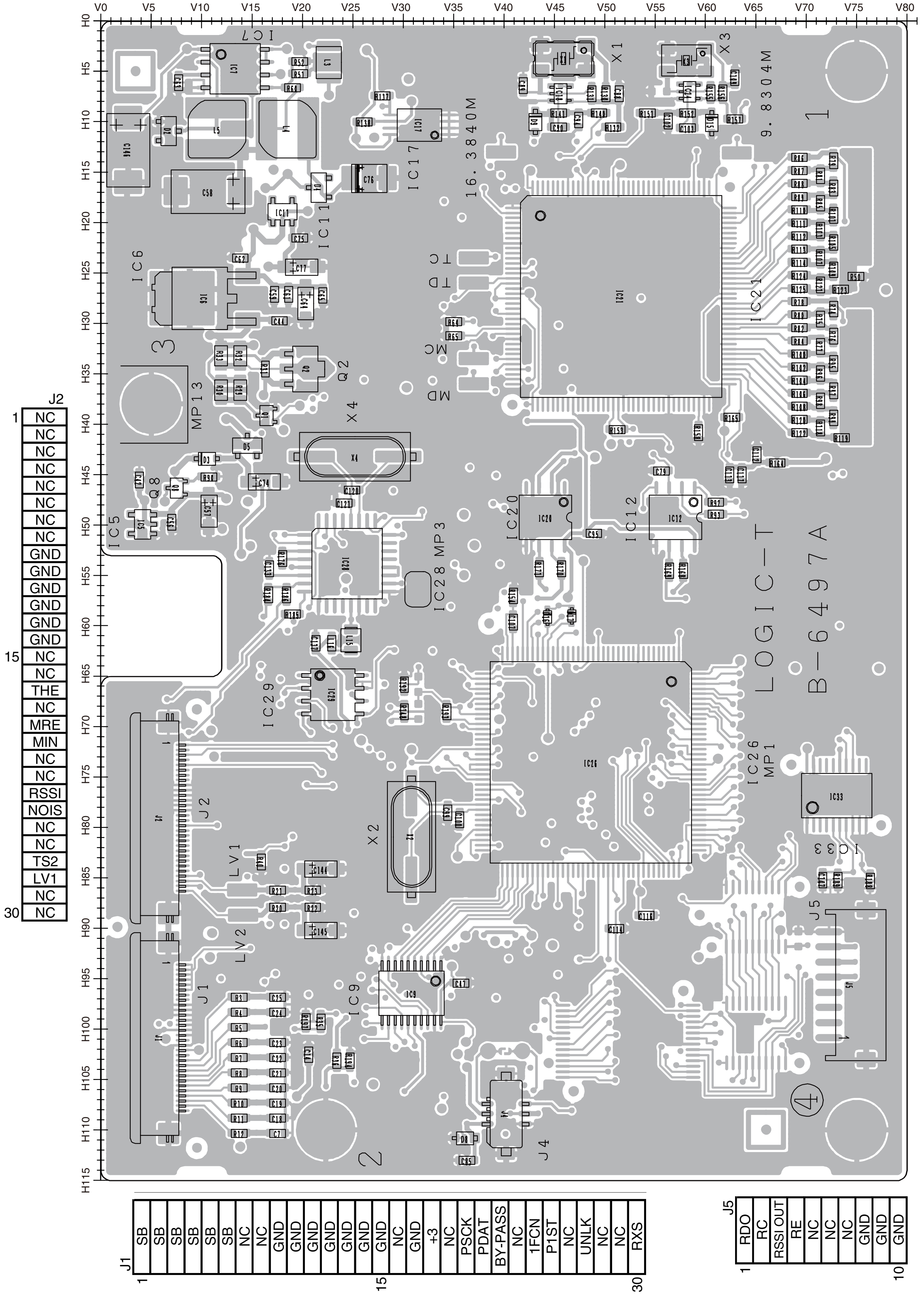
## [LOGIC-R UNIT]

| REF. NO. | ORDER NO. | DESCRIPTION | QTY. |
|---|---|---|---|
| J1 | 6510022711 | 30FLZ-SM2-TB (LF) (SN) | 1 |
| J2 | 6510022711 | 30FLZ-SM2-TB (LF) (SN) | 1 |
| J4 | 6510019271 | 52365-0671 | 1 |
| J5 | 6510021431 | S8B-ZR-SM4A-TF (LF) (SN) | 1 |
| J6 | 6510023861 | S9B-ZR-SM4A-TF (LF) (SN) | 1 |
| W1 | 8900013161 | OPC-1313A (2732 RX-CTRL CABLE) | 1 |
| MP1 | 8510014481 | 2506 CPU SHIELD-1 | 1 |
| MP3 | 8510002280 | VCO shield plate (A) (FX-15) | 1 |
| MP4 | 8510010460 | 1691 MAIN SHIELD PLATE | 1 |
| MP5 | 8510010460 | 1691 MAIN SHIELD PLATE | 1 |

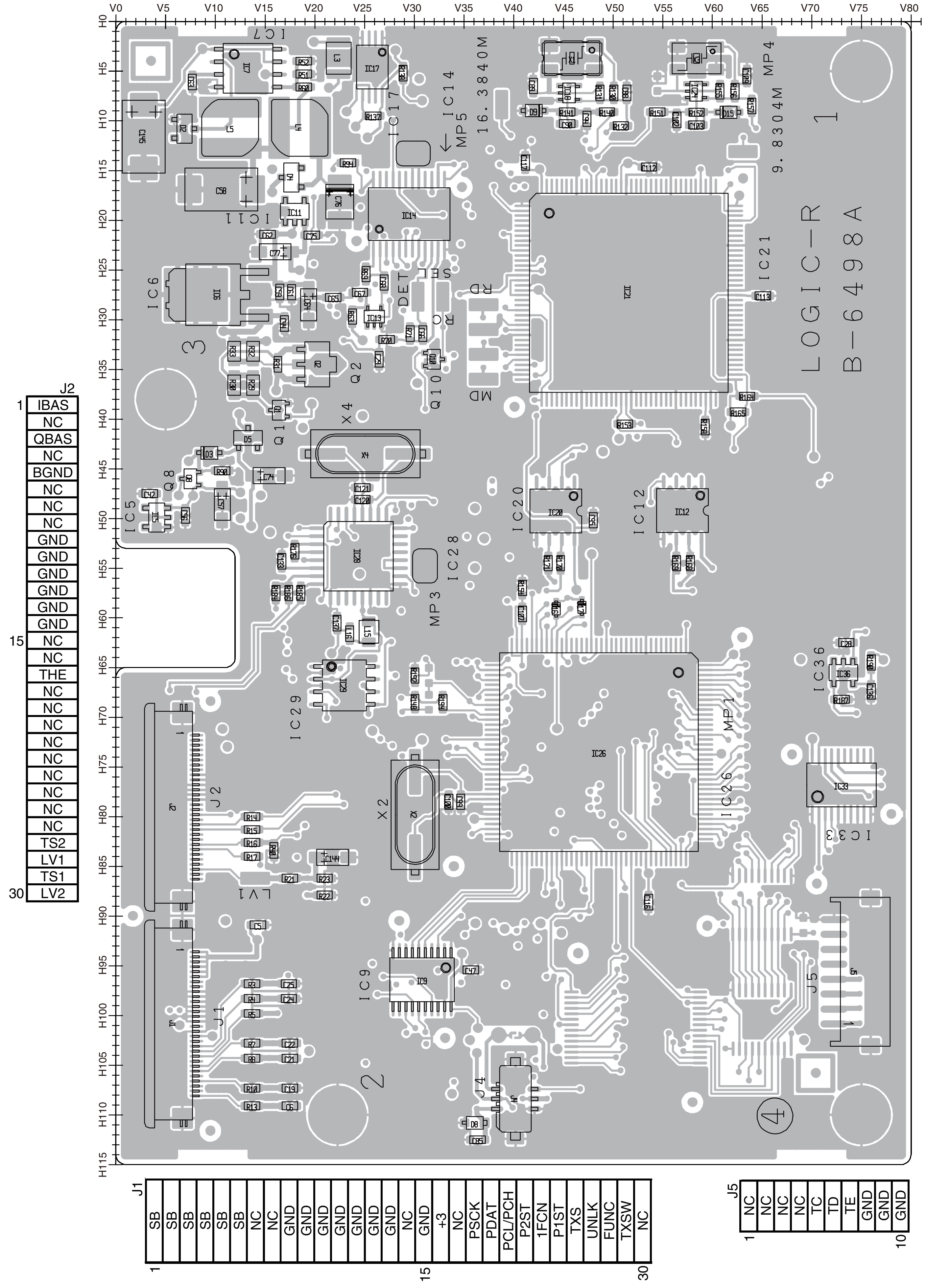
***Note:** Refer to SECTION 9 BOARD LAYOUTS.

**Screw abbreviations** BT: Self-tapping PH: Pan head
BiH: Binding head
ZK, ZK3: Black ZC, ZC3: Black
NI-ZU: Nickel-Zinc

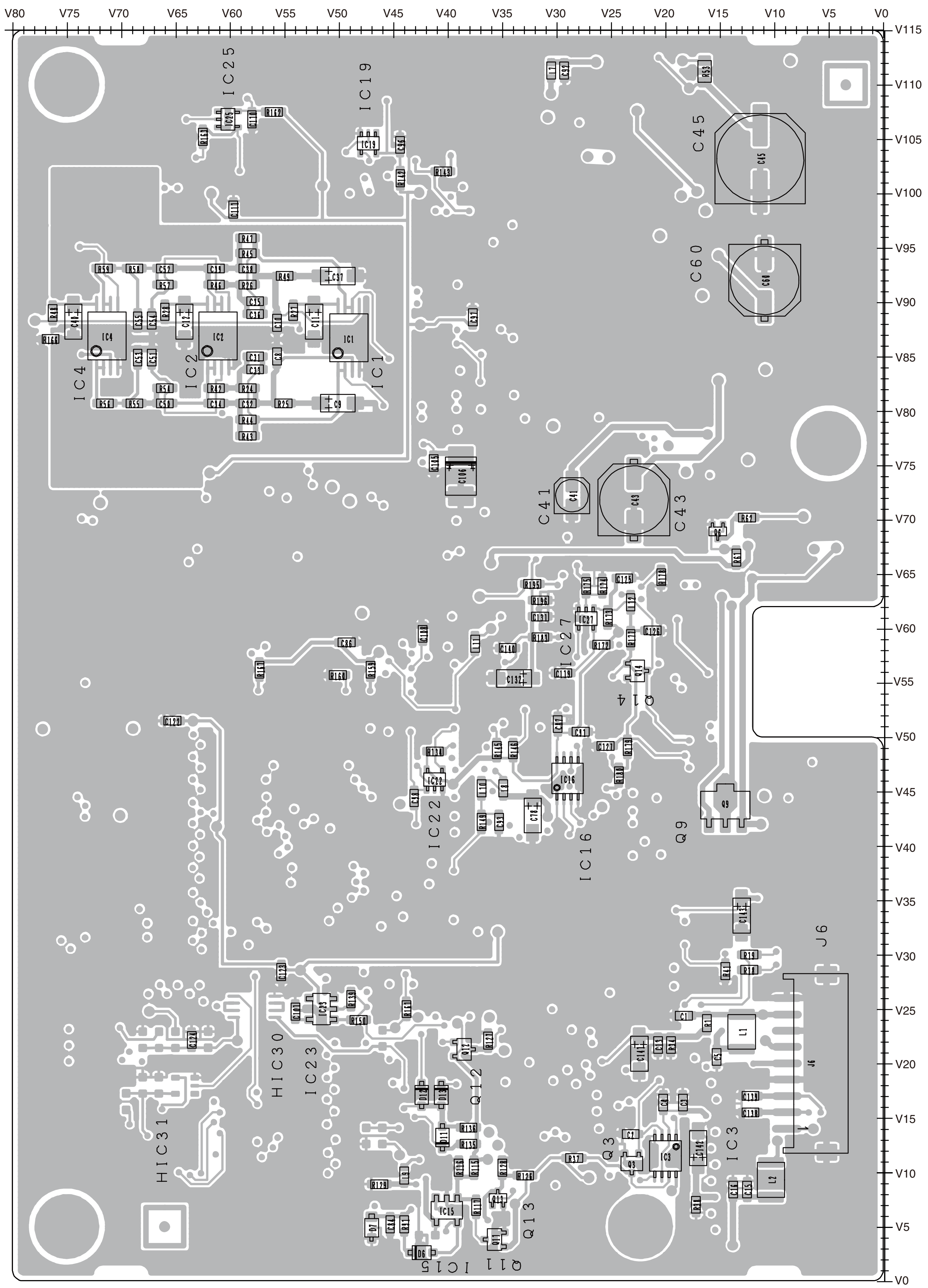
## • LOGIC-R BOARD (TOP VIEW)




## • LOGIC-T BOARD (TOP VIEW)

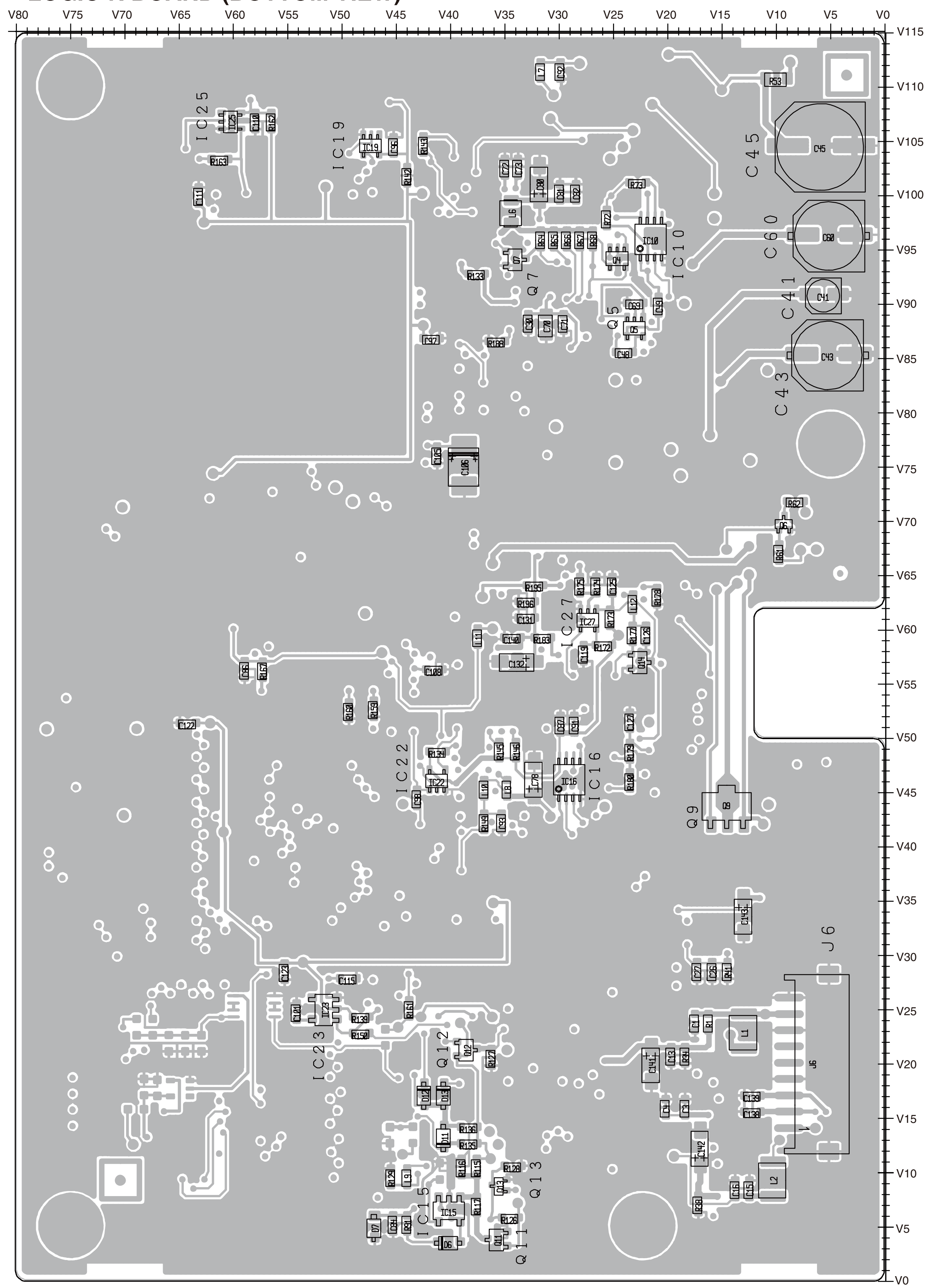


## • LOGIC-T BOARD (BOTTOM VIEW)



| J6 | |
|---|---|
| 1 | USB5V |
| 2 | USBDM |
| 3 | USBDP |
| 4 | GND |
| 5 | HLS |
| 6 | 5V |
| 7 | GND |
| 8 | SB |
| 9 | GND |
| 10 | GND |

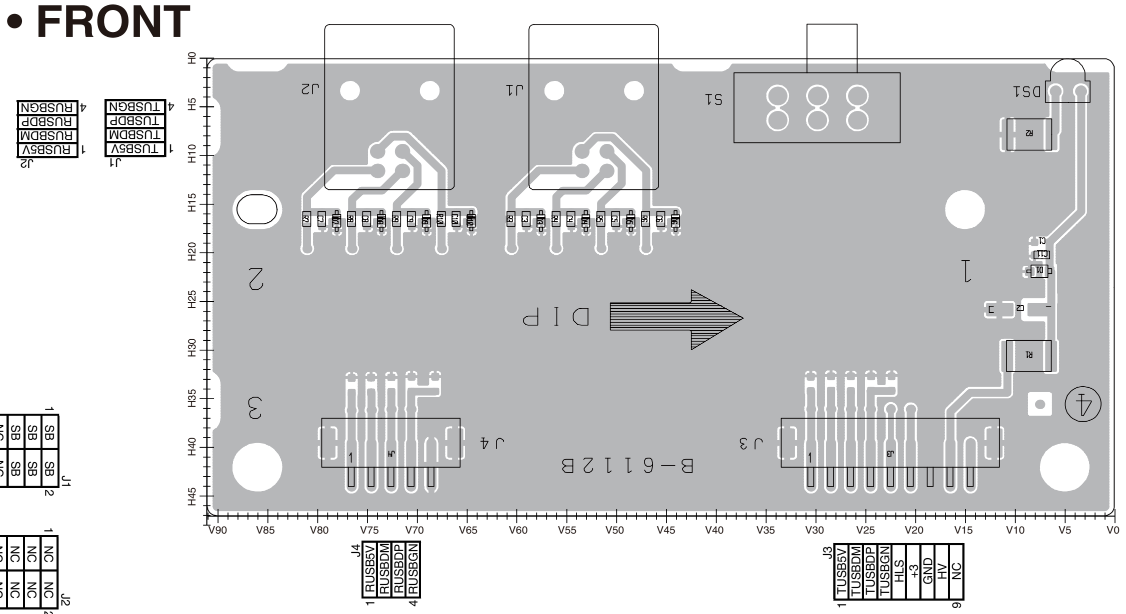
## • LOGIC-R BOARD (BOTTOM VIEW)



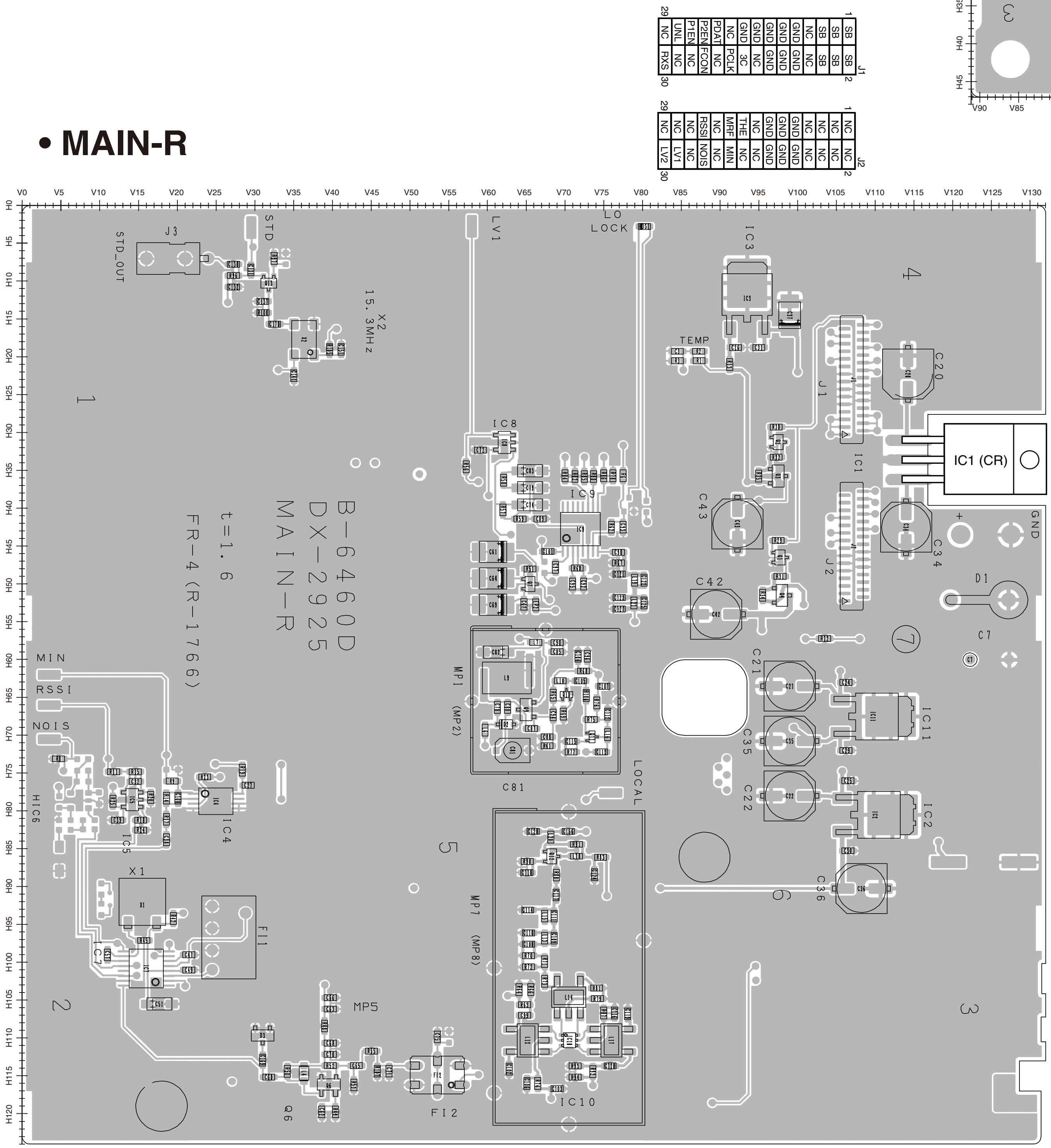
| J6 | |
|---|---|
| 1 | USB5V |
| 2 | USBDM |
| 3 | USBDP |
| 4 | GND |
| 5 | NC |
| 6 | NC |
| 7 | GND |
| 8 | SB |
| 9 | GND |
| 10 | GND |

The combination of this side and the bottom side shows the unit layout in the same configuration as the actual P.C. Board.

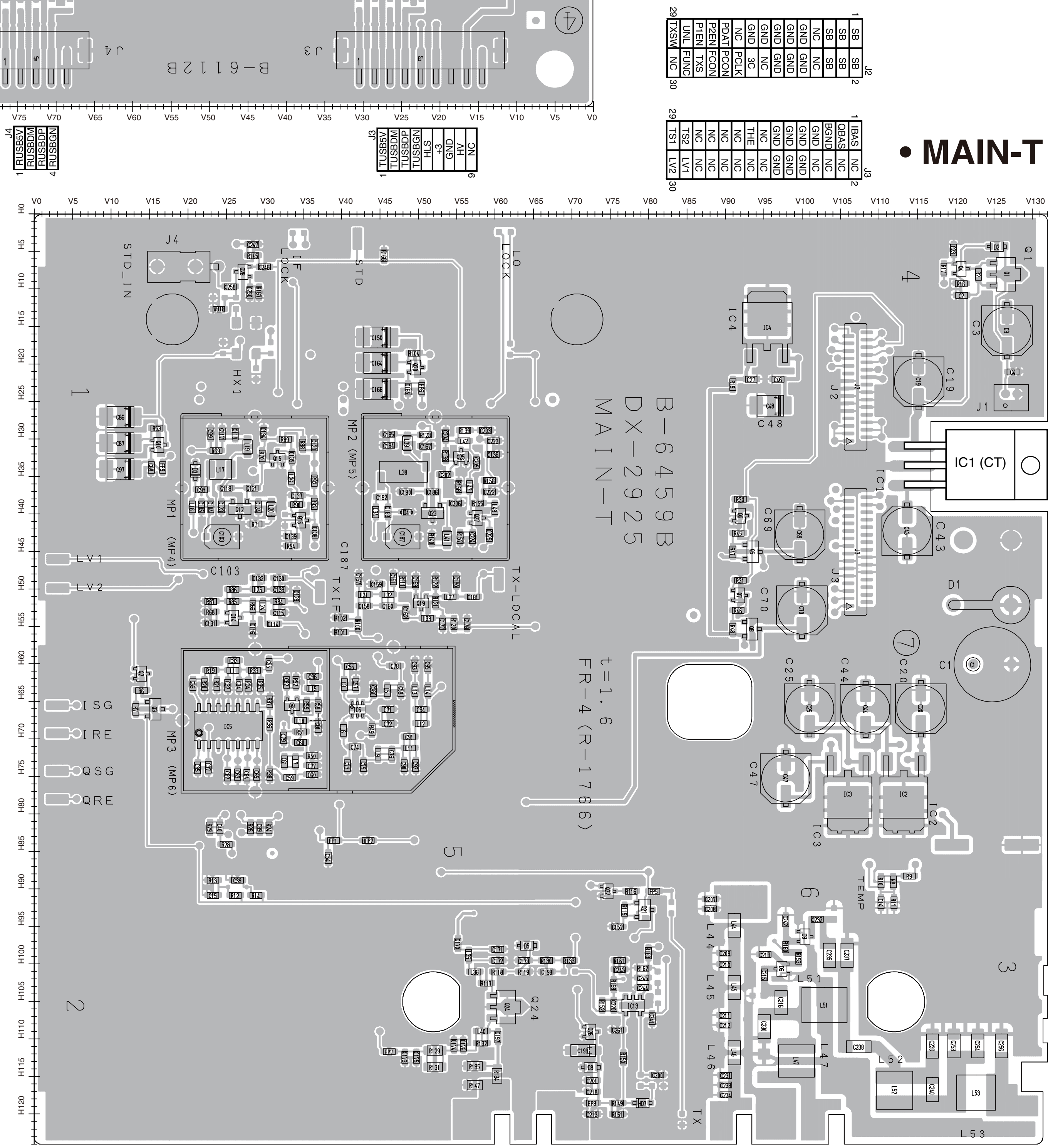
## • FRONT




## • MAIN-R

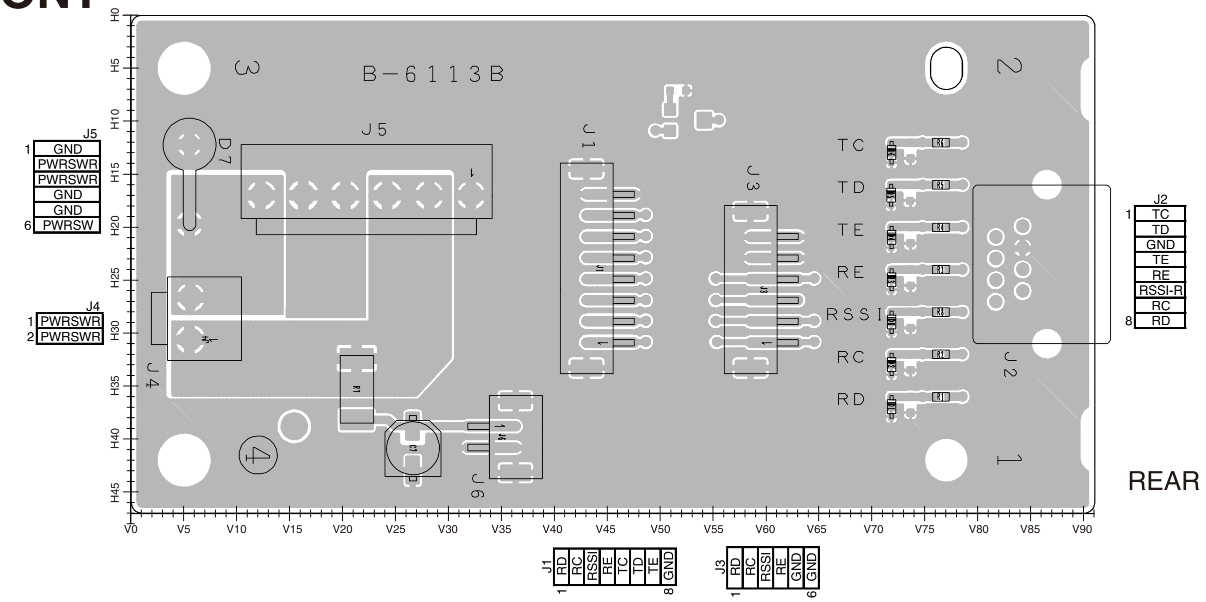



## • MAIN-T

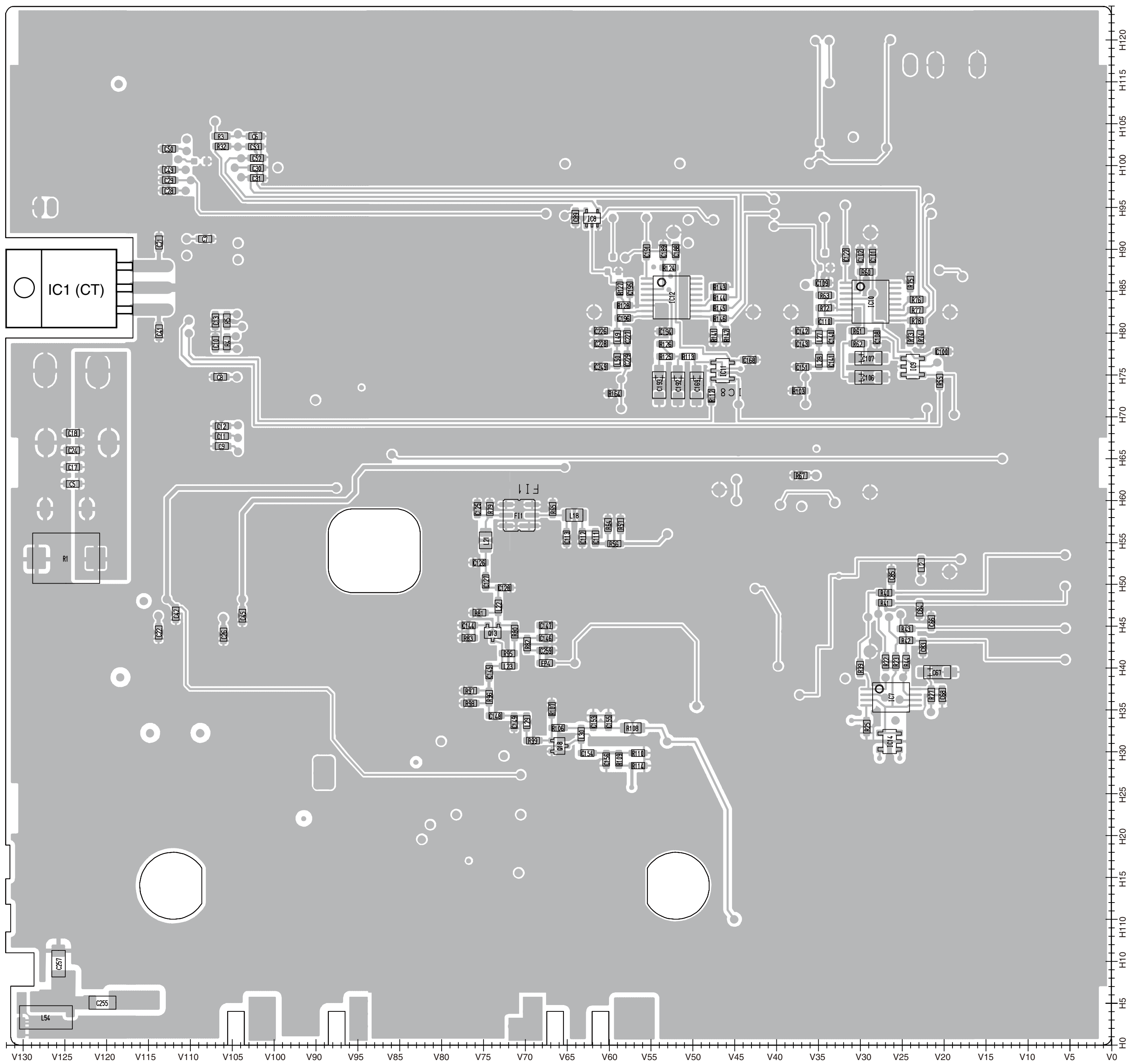


The combination of this side and the bottom side shows the unit layout in the same configuration as the actual P.C. Board.

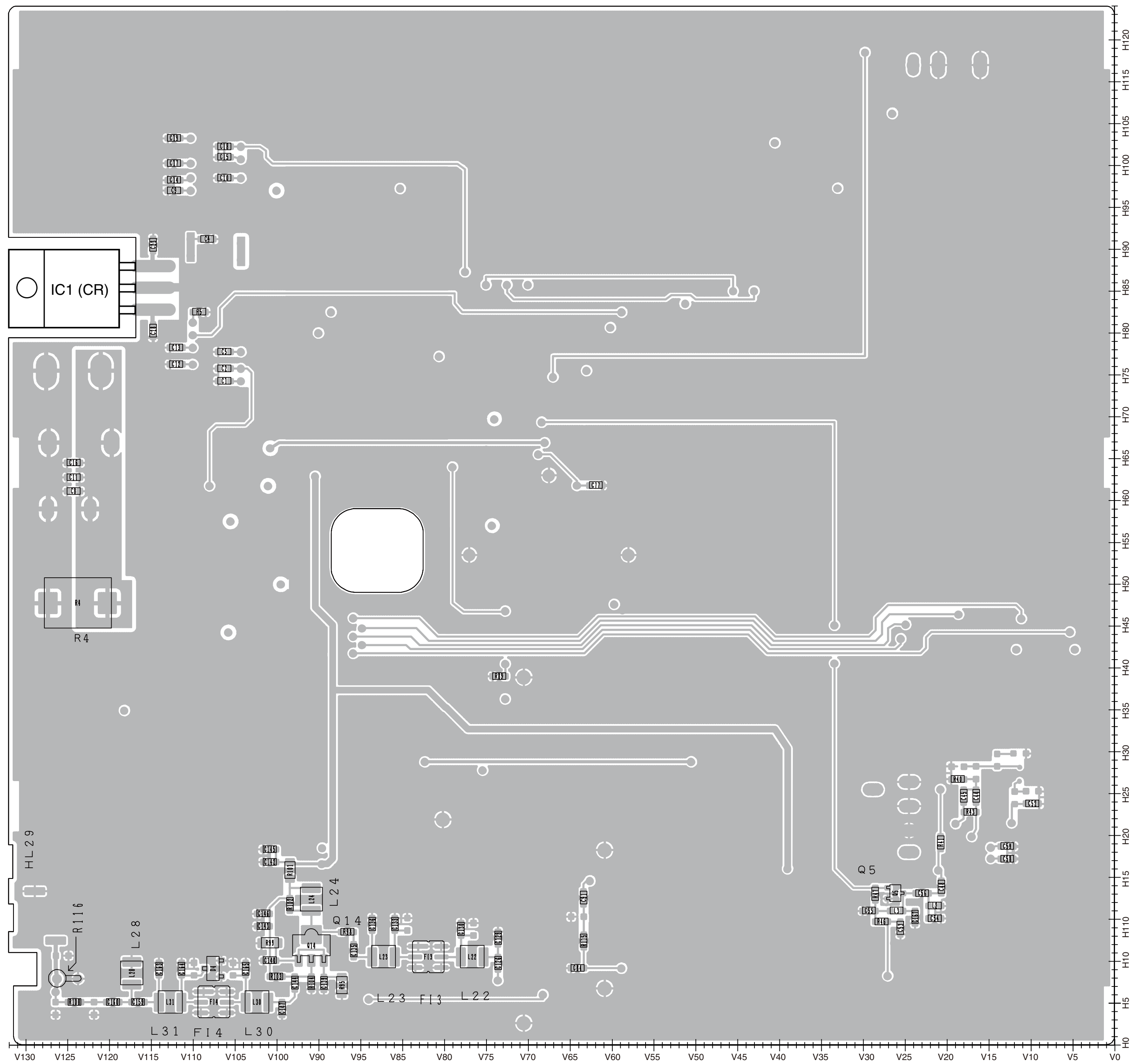
## • FRONT



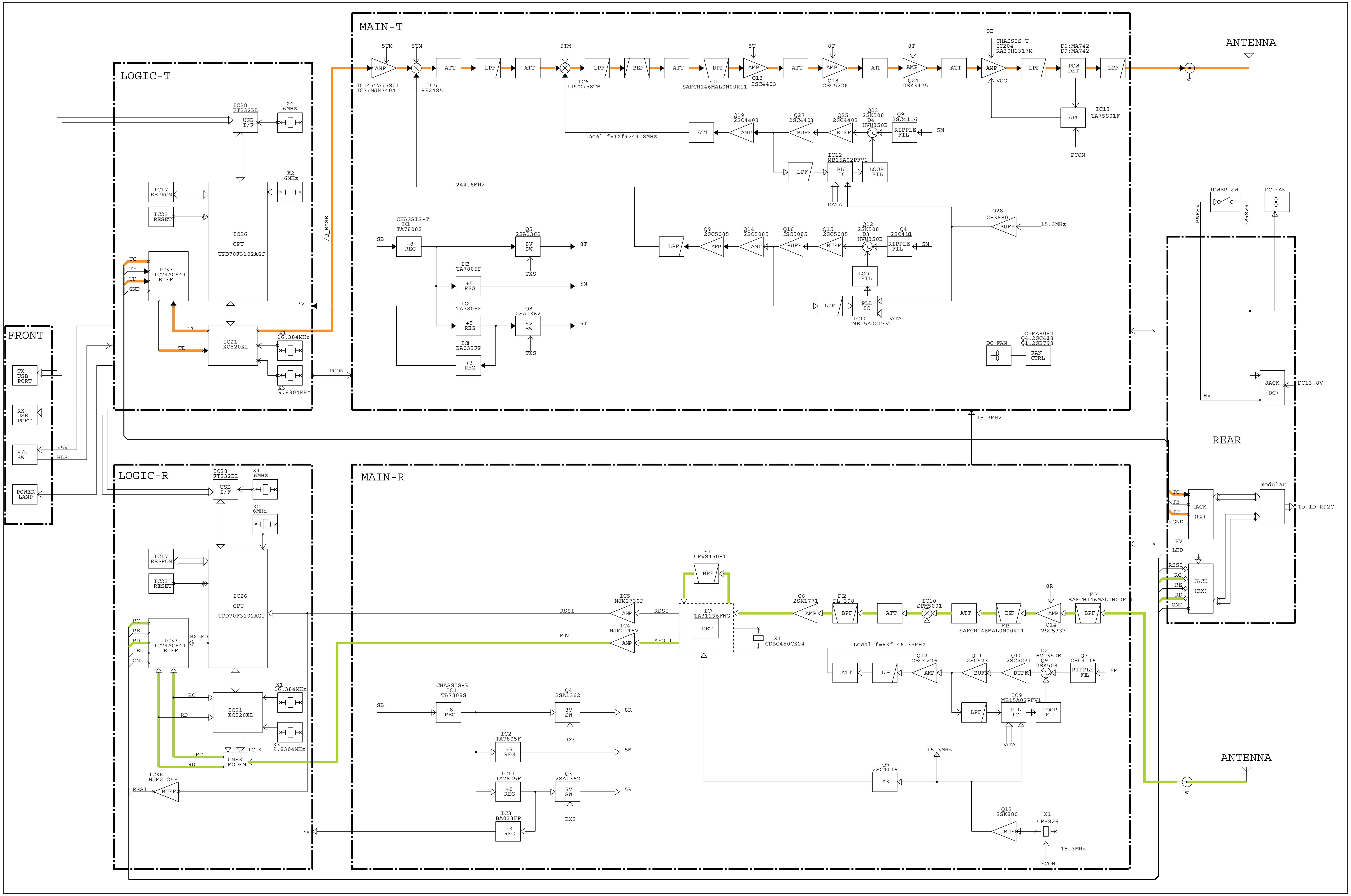

## • MAIN-R



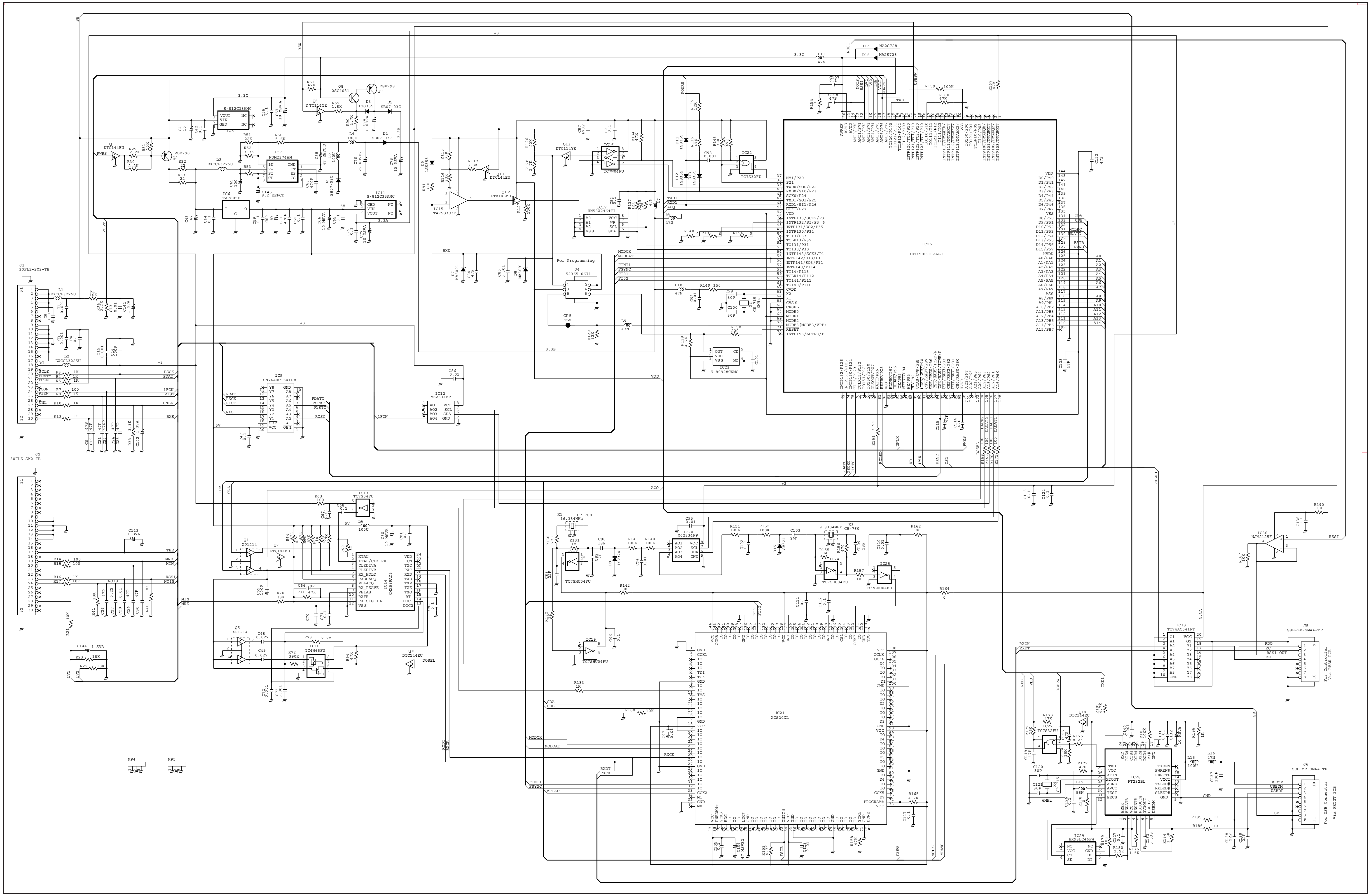

## • MAIN-T

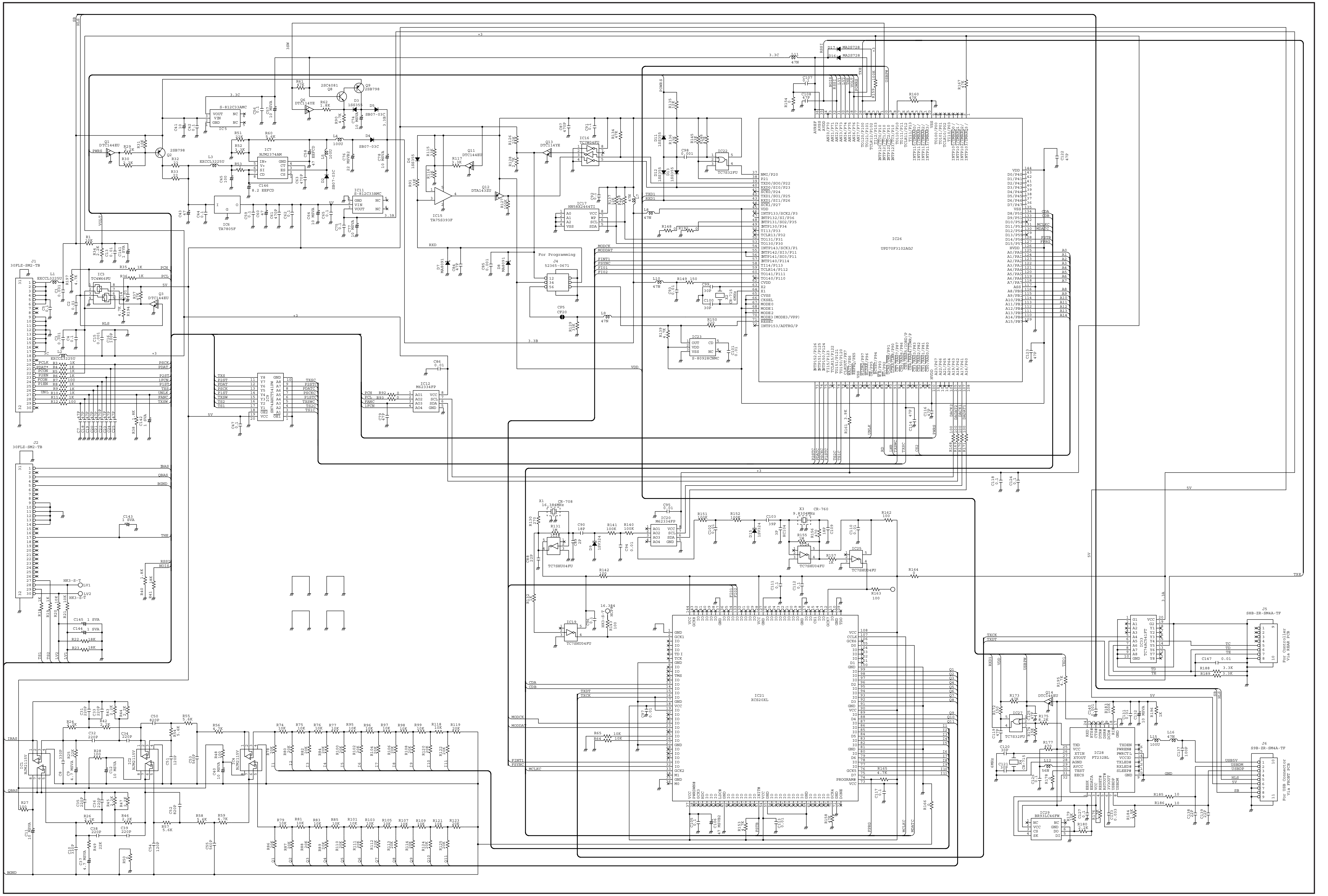


# SECTION 8 BLOCK DIAGRAM

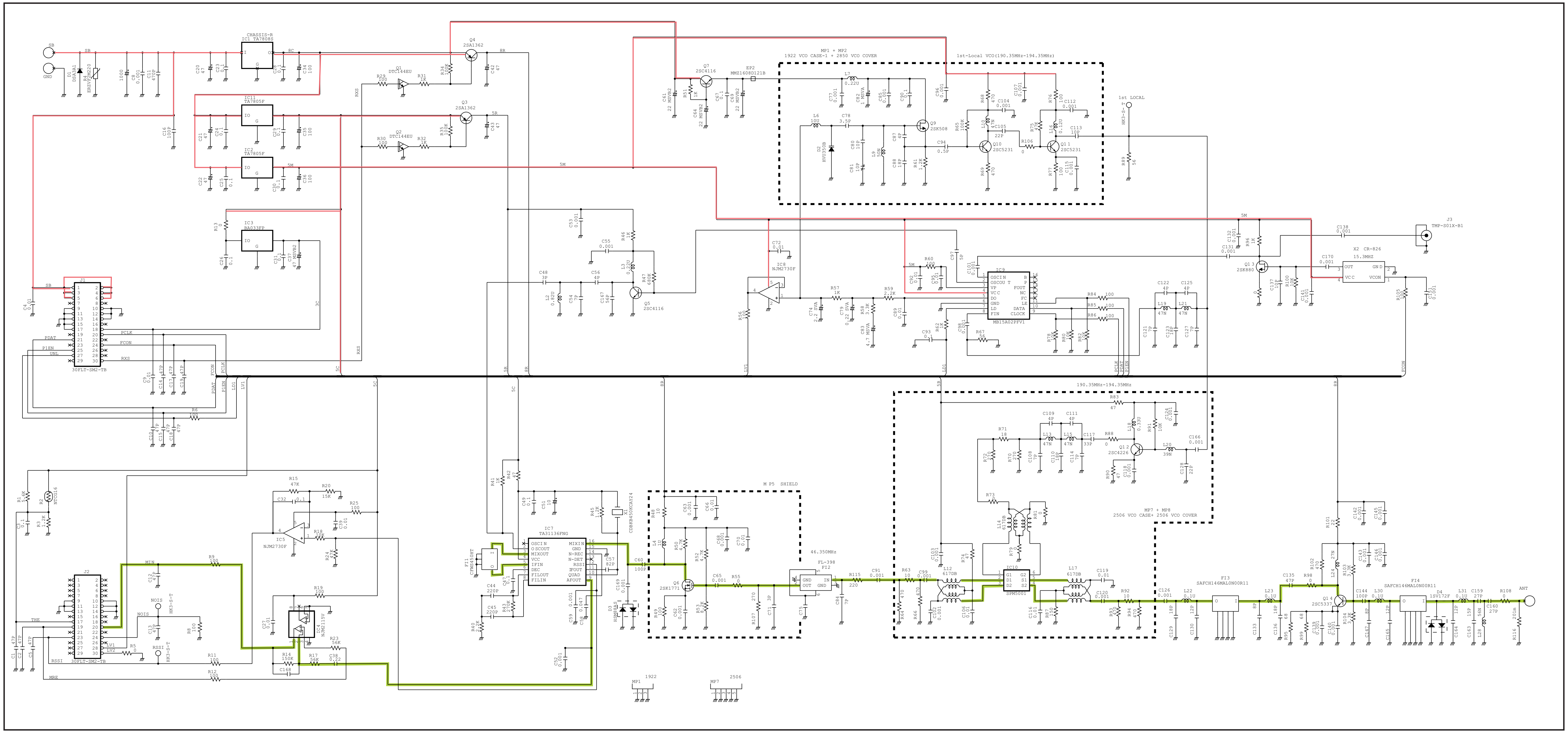


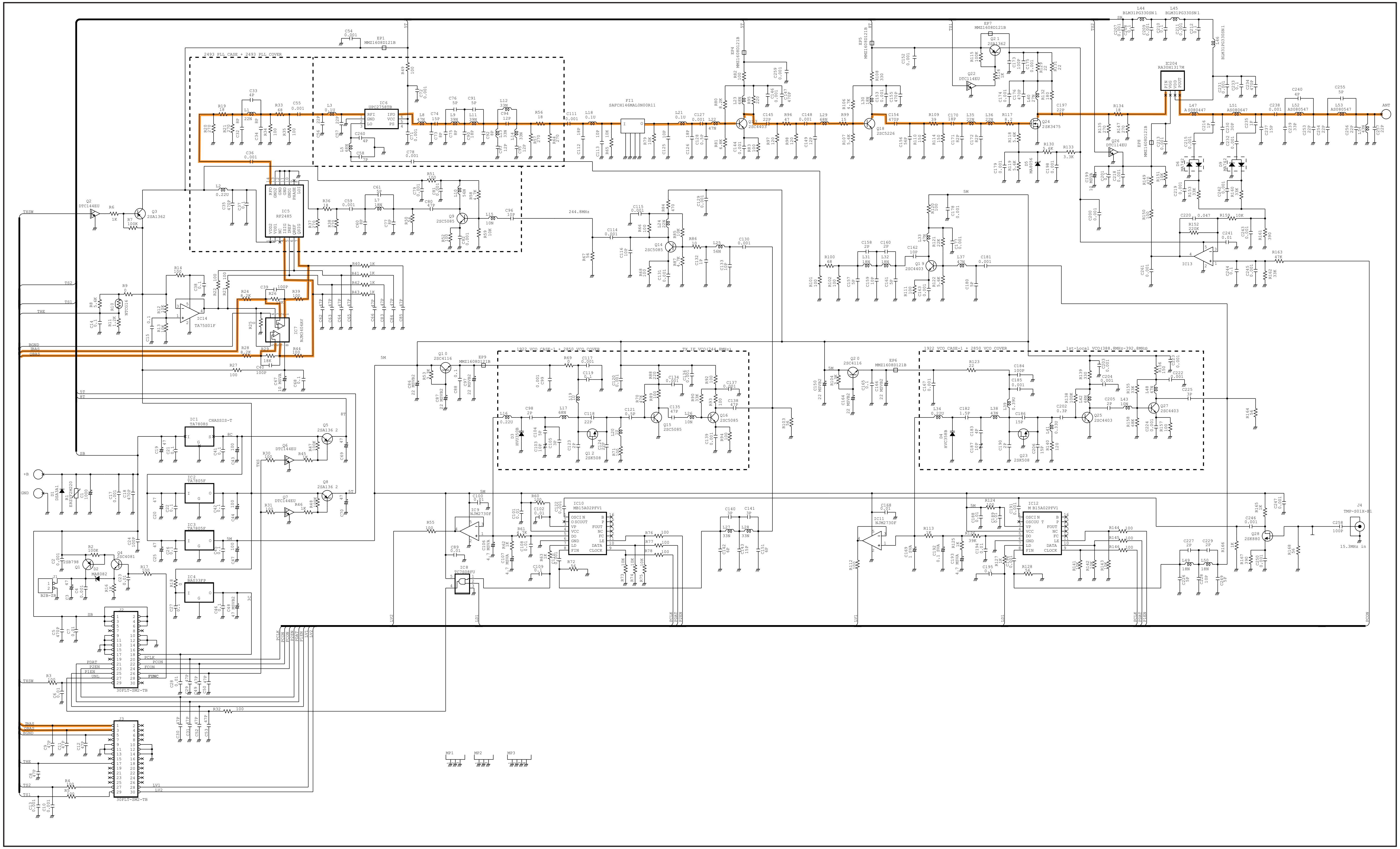
# SECTION 9 VOLTAGE DIAGRAM





J1
30FLZ-SM2-TB
J2
30FLZ-SM2-TB
IC5 S-812C33AMC
IC7 NJM2374AM
IC6 TA7805F
IC11 S-812C33AMC
IC15 TA75S393F
IC16 TC7W04FU
IC17 HN58X2464TI
For Programming
J4
52365-0671
IC22 TC7S32FU
IC23 S-80928CNMC
IC26
UPD70F3102AGJ
IC12 M62334FP
IC20 M62334FP
IC19 TC7SHU04FU
IC21
XCS20XL
IC28
FT232BL
IC29 BR93LC46FW
J5
S8B-ZR-SM4A-TF
For Controller Via REAR PCB
J6
S9B-ZR-SM4A-TF
For USB Connector Via FRONT PCB





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